

Data for Selected Gaging Stations in the Upper Red River of the North Basin in Minnesota, September 2001 through September 2003

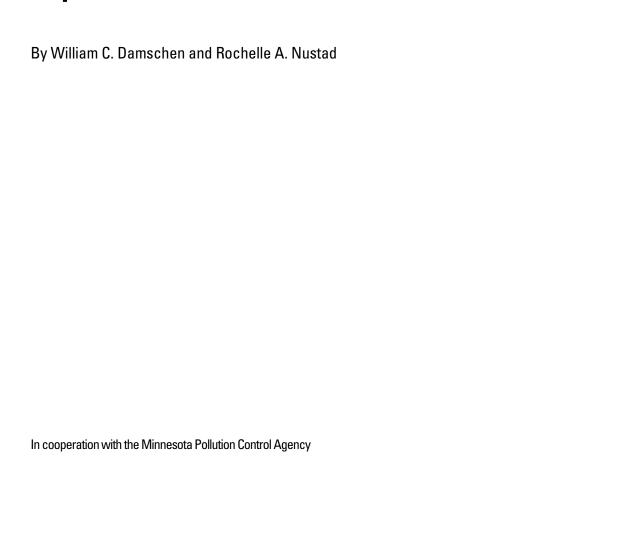
Open-File Report 2005-1150

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Data for Selected Gaging Stations in the Upper Red River of the North Basin in Minnesota, September 2001 through September 2003

By William C. Damschen and Rochelle A. Nustad

Abstract

Surface-water and water-quality data were collected to use in development of upper Red River of the North Basin Total Maximum Daily Loads (TMDLs). This report presents the data that were collected.

During September 2001 through September 2003, data were collected at 13 selected gaging stations in the upper Red River of the North Basin. Continuous streamflow data were collected at three of the gaging stations. Water-quality samples were collected at all 13 gaging stations; and, simultaneous with sample collection, in-stream specific conductance, pH, water temperature, dissolved oxygen, and turbidity were measured. Samples were analyzed for selected nutrients, selected bacteria, chlorophyll *a*, and suspended sediment.

Continuous in-stream water-quality monitors were installed at two gaging stations to measure specific conductance, pH, water temperature, dissolved oxygen, and turbidity.

Introduction

Water-quality standards and the associated Total Maximum Daily Load (TMDL) program were established by the Clean Water Act, section 303(d). A TMDL is "a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources" (Environmental Protection Agency, 2004). Water bodies that exceed a given water-quality standard are listed as impaired and the Environmental Protection Agency requires that the state complete a TMDL for impaired water bodies. Several tributaries in the upper Red River of the North Basin are listed as impaired on the 303(d) TMDL list (Minnesota Pollution Control Agency, 2004). Some of the impaired reaches of the upper Red River of the North Basin are the Mustinka River for

turbidity impairment from the Grant and Traverse County line to Fivemile Creek and from Unnamed Creek to Lake Traverse; the Rabbit River for biota, ammonia, and turbidity impairment from the Wilkin County line to the Bois de Sioux River; the Otter Tail River for fecal coliform and turbidity impairment from Breckenridge Lake to the Bois de Sioux River and for biota and turbidity impairment from Judicial Ditch No. 2 to Brekenridge Lake; and Whiskey Creek for turbidity impairment from the headwaters to the Red River of the North. Additional information is needed in order to complete a TMDL for these impaired water bodies.

In 2001, the U. S. Geological Survey, in cooperation with the Minnesota Pollution Control Agency began to collect data needed to develop several TMDLs. This report presents the surface-water and water-quality data that were collected to use in the development of the upper Red River of the North Basin TMDLs.

Data Collection

During September 2001 through September 2003, a combination of surface-water and water-quality data were collected at 13 selected gaging stations in the upper Red River of the North Basin (fig. 1; table 1). Instantaneous streamflow was measured coincident with water-quality sample collection at all gaging stations except for the Otter Tail River below Orwell Dam near Fergus Falls, Minn., gaging station (05046000) and the Mustinka River above Wheaton, Minn., gaging station (05049000). Continuous streamflow data were collected at the Otter Tail River below Fergus Falls, Minn., gaging station (05045900); at the Otter Tail River at 11th Street in Breckenridge, Minn., gaging station (05046502); and at the Whiskey Creek at Kent, Minn., gaging station (05051521).

2 Data for Selected Gaging Stations in the Upper Red River of the North Basin in Minnesota

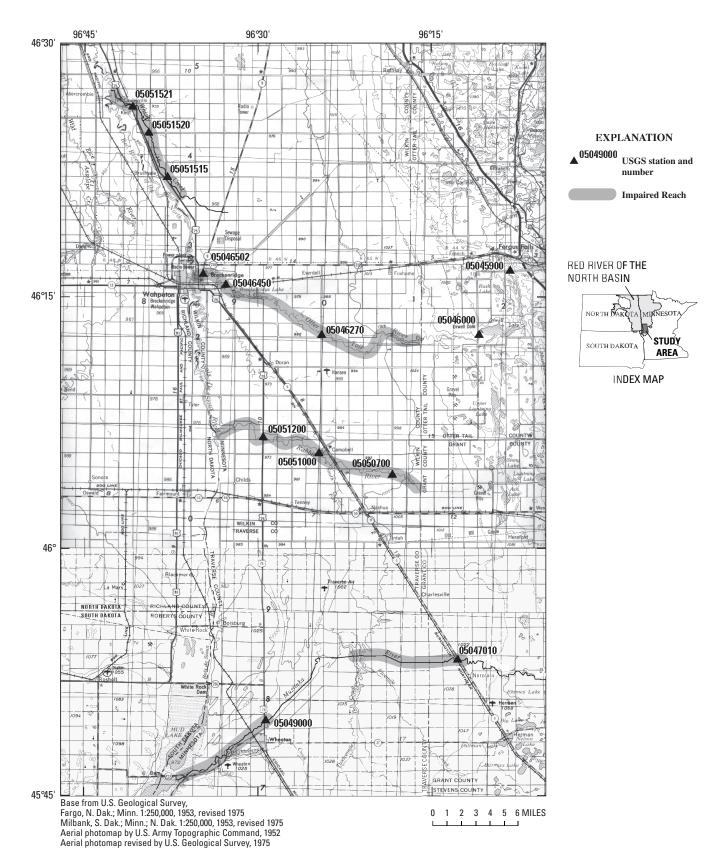


Figure 1. Location of sampling sites and 2004 impaired reaches in the upper Red River of the North Basin, Minnesota.

Gaging station number	Gaging station name	Type of data collected
05045900	Otter Tail River below Fergus Falls, MN	Surface water and water quality
05046000	Otter Tail River below Orwell Dam near Fergus Falls, MN	Water quality
05046270	Otter Tail River near Everdell, MN	Water quality
05046450	Otter Tail River above Breckenridge, MN	Water quality
05046502	Otter Tail River at 11th Street in Breckenridge, MN	Surface water and water quality
05047010	Mustinka River below Norcross, MN	Water quality
05049000	Mustinka River above Wheaton, MN	Water quality
05050700	Rabbit River near Nashua, MN	Water quality
05051000	Rabbit River at Campbell, MN	Water quality
05051200	Rabbit River near Campbell, MN	Water quality
05051515	Whiskey Creek below Brushvale, MN	Water quality
05051520	Whiskey Creek near Kent, MN	Water quality
05051521	Whiskey Creek at Kent, MN	Surface water and water quality

Water-quality samples were collected at all 13 gaging stations; and, simultaneous with sample collection, in-stream specific conductance, pH, water temperature, dissolved oxygen, and turbidity were measured. Water-quality samples were collected once a month during October through May and twice a month during June through September. Samples were not collected when streamflow was estimated to be less than 0.01 cubic foot per second. Samples were collected according to U.S. Geological Survey protocols (U.S. Geological Survey, variously dated). Samples were analyzed for selected nutrients, selected bacteria, chlorophyll *a*, and suspended sediment by several different sources (table 2). Supplementary bacteria samples were collected and analyzed according to U.S. Geological Survey protocols by Wilkin County Soil and Water Conservation District personnel.

Continuous in-stream water-quality monitors were installed on December 12, 2001, at the Mustinka River above Wheaton, Minn., gaging station (05049000) and on April 15, 2002, at the Whiskey Creek at Kent, Minn., gaging station (05051521). The monitors measured specific conductance, pH, water temperature, dissolved oxygen, and turbidity. Both monitors were removed in September 2003.

The surface-water and water-quality data that were collected to use in the development of the upper Red River of the North Basin TMDLs are presented in the supplemental table of this report.

Acknowledgements

The collection and analysis of supplementary bacteria data during summer months was made possible through the cooperation of Don Bajumpaa and other staff personnel at the Wilkin County Soil and Water Conservation District.

References

Minnesota Pollution Control Agency, 2004, Red River of the North Basin, 2004–Impaired Waters List: accessed October 28, 2004, at URL http://www.pca.state.mn.us/publications/ maps/tmdl-rr-conv-04.pdf

Environmental Protection Agency, 2004, Introduction to TMDLs: accessed October 28, 2004, at URL http://www.epa.gov/owow/tmdl/intro.html

U.S. Geological Survey, variously dated, National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book. 9, chaps. A1-A9, various pagination.

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 Table 2.
 Constituents for which samples were analyzed and analysis source.

[USGS, U.S. Geological Survey; SWCD, Soil and Water Conservation District]

Parameter code	Constituent	Analysis source
00608	Nitrogen, ammonia, dissolved (milligrams per liter as N)	Minnesota Department of Health
00610	Nitrogen, ammonia, total (milligrams per liter as N)	Minnesota Department of Health
00613	Nitrogen, nitrite, dissolved (milligrams per liter as N)	Minnesota Department of Health
00625	Nitrogen, ammonia plus organic, total (milligrams per liter as N)	Minnesota Department of Health
00631	Nitrogen, nitrite plus nitrate, dissolved (milligrams per liter as N)	Minnesota Department of Health
00665	Phosphorus, total (milligrams per liter as P)	Minnesota Department of Health
00671	Phosphorus, orthophosphate, dissolved (milligrams per liter as P)	Minnesota Department of Health
31625	Fecal coliform, 0.7 micrometer-membrane filter (colonies per 100 milliliters)	USGS and Wilkin County SWCD
31633	Escherichia coli, m-TEC MF method (colonies per 100 milliliters)	USGS and Wilkin County SWCD
31673	Streptococci, fecal, membrane filter (colonies per 100 milliliters)	USGS and Wilkin County SWCD
32211	Chlorophyll a, phytoplankton, spectrophotometric acid method (micrograms per liter)	Minnesota Department of Health
70331	Sediment, suspended, sieve diameter (percent finer than 0.062 millimeter)	USGS Iowa Sediment Laboratory
80154	Sediment, suspended concentration (milligrams per liter)	USGS Iowa Sediment Laboratory

Supplement 1. Surface-water and water-quality data collected at selected gaging stations in the upper Red River of the North Basin in Minnesota, September 2001 through September 2003.

Abbreviations and symbols

mi², square mile ft, foot ft³/s, cubic foot per second AC-FT, acre foot cfs, cubic foot per second NTU, nephelometric turbidity unit mg/L, milligrams per liter μS/cm, microsiemens per centimeter deg C, degree Celsius μg/L, micrograms per liter mm, millimeter --, no data

LOCATION.--Lat $46^{\circ}16'32''$, long $96^{\circ}08'03''$ in $SE^{1}/_{4}$ NW $^{1}/_{4}$ sec. 6, T. 132 N., R. 43 W., Otter Tail County, Hydrologic Unit 09020103, 1 mile south and 2.5 miles east of Fergus Falls.

DRAINAGE AREA.--1,690 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 through January 2003.

GAGE.--Water stage recorder. Datum of gage is 1,100.00 ft above National Geodetic Vertical Datum of 1929. (From Topographic map).

REMARKS .-- Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded daily discharge, 1,390 ft³/s, July 10, 2002; minimum recorded daily discharge, 173 ft³/s, December 4, 2002.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2 3												
4												
5												
6												471
7												615
8												650
9												569
10												574
11												558
12												536 513
13												513
14												519
15												580
16												510
17												504
18												499
19												458
20												463
21												424
21 22												395
23												404
24												406
23 24 25												413
26												426
27												415
28												443
29												394
30												367
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	433	464	505	434	416	532	728	792	445	615	718
2	350	408	512	526	482	400	530	726	798	480	619	637
3	342	442	539	528	535	384	530	734	756	529	649	659
4	343	442	464	508	518	380	525	699	736	567	656	645
5	339	420	484	520	440	415	523	702	696	537	651	674
6	288	429	476	535	465	448	532	706	690	568	645	644
7	325	416	485	547	485	466	558	718	664	618	639	636
8	304	446	474	502	511	463	596	847	661	902	622	611
9	292	426	509	521	532	430	598	889	622	771	575	585
10	479	408	510	547	506	410	656	930	586	1,390	563	633
11	501	408	513	582	517	381	730	943	596	927	626	564
12	438	397	539	554	501	453	686	925	573	716	610	541
13	440	412	525	564	487	547	665	916	534	668	513	542
14	406	420	530	596	489	597	680	902	554	626	567	540
15	410	404	556	553	506	562	694	898	529	578	595	540
16	403	431	568	542	508	544	707	877	491	602	604	536
17	341	413	561	548	506	550	734	882	472	606	543	516
18	276	431	594	454	508	530	763	849	434	637	511	481
19	549	399	489	443	529	513	748	863	454	634	473	505
20	377	394	451	459	495	522	699	840	444	666	521	472
21	361	409	494	475	493	422	668	835	460	729	602	391
22	377	385	491	499	500	424	708	836	462	723	529	387
23	375	393	492	537	494	440	689	828	516	737	507	393
24	390	416	415	515	498	527	685	875	523	732	483	388
25	407	432	385	468	406	509	682	850	485	748	522	397
26 27 28 29 30 31	400 384 400 382 416 421	442 379 385 411 387	397 475 517 531 533 535	493 518 538 431 361 354	371 366 458 	534 537 602 620 546 549	678 683 780 787 745	699 781 789 833 846 794	474 481 495 474 470	637 744 742 693 641 684	470 609 621 701 618 593	419 397 417 388 390
TOTAL	11,865	12,418	15,508	15,723	13,540	15,121	19,791	25,540	16,922	21,277	18,052	15,646
MEAN	383	414	500	507	484	488	660	824	564	686	582	522
MAX	549	446	594	596	535	620	787	943	798	1,390	701	718
MIN	276	379	385	354	366	380	523	699	434	445	470	387
AC-FT	23,530	24,630	30,760	31,190	26,860	29,990	39,260	50,660	33,560	42,200	35,810	31,030

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	341	340	287								
2	336	369	294	322								
3	338	380	219	339								
4	353	382	173	297								
5	279	389	221	289								
6	360	403	291	308								
7	399	370	300	310								
8	347	373	217	291								
9	424	359	341	309								
10	417	354	333	283								
11	414	350	338	208								
12	436	339	342	184								
13	465	331	342	191								
14	446	317	338	226								
15	373	355	338	205								
16	343	372	330	243								
17	331	416	334	235								
18	356	452	320	212								
19	372	434	289	219								
20	367	372	308	215								
21	385	370	333	216								
22	386	345	326	230								
23	381	348	335	252								
24	359	295	279	260								
25	356	294	269	252								
26	337	294	282	273								
27	321	296	291	274								
28	338	337	310	259								
29	358	394	356	248								
30	353	369	347	219								
31	352		291	209								
TOTAL	11,436	10,800	9,427	7,865								
MEAN	369	360	304	254								
MAX	465	452	356	339								
MIN	279	294	173	184								
AC-FT	22,680	21,420	18,700	15,600								

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through January 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instan- b taneous v dis- u charge, cfs	nfltrd so field, ox NTU m	Nois- which we will be desired to the desired of the desired to the desired by th	nfltrd ield, std inits	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Tempe ature air, deg (, atu wa C de	nper- ire, ter, g C	ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammor water fltrd, mg/L as N (00608	unfltrd mg/L as N	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 12 26	1400 1110	527 417		0.3 9.9	8.4 8.3	400 392	20.9 17.8		2.1 5.4	0.68 0.69	<0.050 <0.050		0.080 0.060	<0.010 <0.010
		Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E col m-TE MF wate col 100 n	EC for , M- er, 0.7u / co nL 100	li- rm, FC MF ol/ mL	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro phyll phyto plank ton, acid n ug/L (3221	a se o- me t- sie diar n, per c <.06	ent, eve netr c cent	Sus- pended sedi- ment oncen- tration mg/L 80154)		
		SEP 200 12 26	0.008 0.013	0.043 0.041	110 260		80 20	66 72	3.05 3.63	9	1	8 6		

Remark codes used in this table: < -- Less than E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

Date	Time	Instantaneous discharge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)		Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001 11	0945	264	5.0	9.2	7.9	425	10.0	12.1	0.76	< 0.040		0.090	E.006
NOV	0773	204	5.0	7.2	1.)	723	10.0	12.1	0.70	<0.040		0.070	L.000
08 DEC	1045	348	1.0	11.5	8.1	456	2.2	7.7	0.74	< 0.050	< 0.050	0.070	< 0.010
13	1040	507	0.0	13.2	8.0	445	-4.2	1.8	0.69	< 0.050	0.750	0.110	< 0.010
JAN 2002 17 FEB	1045	E545	4.0	13.5	8.0	471	-8.0	1.6	0.70	0.100	0.100	0.110	< 0.010
14 MAR	1030	441	1.0	13.1	7.9	475	3.9	1.5	0.85	0.140	0.140	0.100	< 0.010
18	1715	E551	0.4	13.1	8.1	457	-5.0	3.1	0.77	0.120	0.110	0.070	< 0.010
APR 17 MAY	1610	738	33	11.0	8.0	409	19.4	15.2	0.91	0.060	0.080	0.090	0.020
16 JUN	0905	874	20	11.8	8.3	412	6.0	13.6	0.86	< 0.050	< 0.050	< 0.050	< 0.010
03	1645	700	14	9.1	8.2	409	18.0	18.0	0.80	< 0.050	< 0.050	0.080	< 0.010
26 JUL	1630	484	12	7.8	8.2	395	30.3	29.0	0.86	< 0.050	0.050	0.160	< 0.010
11	1350	857	26	7.2	8.0	362	24.0	21.3	0.95	0.060	0.090	0.220	0.010
22	1720	693	7.0	7.9	8.1	373	21.0	26.5	0.83	< 0.050	< 0.050	0.100	< 0.010
AUG	1,20	0,2	7.0	,	0.1	5.5	21.0	20.0	0.00	10.000	10.000	0.100	101010
05	1615	656	5.0	10.0	8.3	364	27.3	26.0	0.88	< 0.050	< 0.050	0.070	< 0.010
19 SEP	1615	463	0.0	10.4	8.2	383	28.3	23.3	0.58	< 0.050	< 0.050	0.050	< 0.010
12	0915	622	7.0	7.4	8.1	375	18.8	23.2	0.66	< 0.050	< 0.050	0.080	< 0.010
25	1405	399	0.0	10.7	8.4	401	11.0	16.0	0.58	< 0.050	< 0.050	0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT 2001								
11 NOV	E.02	0.07	E1,400	1,900	2,200	5.20	94	17
08	0.014	0.048	84	98	220	11.4	89	5
DEC 13	0.020	0.047				5.02	78	4
JAN 2002	0.020	0.047				3.02	70	4
17	0.015	0.041				3.49	65	7
FEB 14	0.023	0.052				3.36	67	7
MAR	0.023	0.032				3.30	07	/
18	0.017	0.047				5.00	76	6
APR	0.007	0.072	E01-	E58k	20	12.0	0.4	24
17 MAY	0.007	0.073	E8k	EJ8K	20	13.8	84	24
16	0.008	0.061	7k	21	55	8.97	80	21
JUN								
03	0.012	0.070	120k	60k	13k	6.59	88	21
26	0.034	0.089	140k	85k	79	3.94	91	27
JUL								
11	0.043	0.113	460	500	2,100	3.31	87	37
22	0.029	0.088	200k		21	4.71	92	20
AUG	0.017	0.050	101		15	4.62	02	7
05	0.017	0.058	12k	6k	45	4.63	92	7
19 SEP	0.012	0.042	18k	58	39	4.84	93	6
SEP 12	0.024	0.069	140	43k	120	4.49	93	17
25	0.024	0.059	120	43K 180	69	3.94	93 89	6
45	0.028	0.056	120	100	09	5.94	09	U

Remark codes used in this table: < -- Less than E -- Estimated value

 $[\]begin{tabular}{ll} Value qualifier codes used in this table: \\ k -- Counts outside acceptable range \end{tabular}$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

									Ammonia			Nitrite	
			Tur-		pН,	Specif.			+			+	
		Instan-	bidity,		water,	conduc-			org-N,	Ammonia	Ammonia	nitrate	Nitrite
		taneous	water,	Dis-	unfltrd	tance,	Temper-	Temper-	water,	water,	water,	water	water,
		dis-	unfltrd	solved	field,	wat unf	ature,	ature,	unfltrd	fltrd,	unfltrd	fltrd,	fltrd,
		charge,	field,	oxygen,	std	uS/cm	air,	water,	mg/L	mg/L	mg/L	mg/L	mg/L
Date	Time	cfs	NTU	mg/L	units	25 deg C	deg C	deg C	as N				
		(00061)	(61028)	(00300)	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
OCT 2002													
07	1600	402	3.0	12.4	8.2	432	12.5	13.0	0.64	< 0.050	< 0.050	0.110	< 0.010
NOV													
04	1630	406	6.0	14.2	8.1	447	2.8	4.3	0.63	< 0.050	< 0.050	0.120	< 0.010
DEC													
09	1720	429	6.0	12.9	8.1	442	2.0	2.9	0.80	0.080	0.080	0.130	< 0.010
JAN 2003													
13	1640	E191	16	14.1	7.8	484	-17.0	1.2		0.050	0.050	0.250	< 0.010

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002 07	0.060	0.103	180	200	34	3.99	100	7
NOV 04	0.029	0.064	12k	44	16k	10.0	95	4
DEC 09	0.030	0.063				8.43	78	8
JAN 2003 13	0.015	0.057				5.77	83	21

Remark codes used in this table: < -- Less than E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

 $LOCATION.--Lat\ 46^{\circ}12'35", long\ 96^{\circ}11'05", in\ NE^{1}_{\sqrt{4}}\ sec.\ 34, T.132\ N., R.44\ W., Otter\ Tail\ County,\ Hydrologic\ Unit\ 09020103, on\ left\ bank\ 0.7\ mile\ downstream\ from\ Orwell\ Dam\ on\ County\ Highway\ 15,\ 6.1\ miles\ downstream\ from\ Dayton\ Hollow\ Dam,\ 8\ miles\ southwest\ of\ Fergus\ Falls,\ and\ 11.1\ miles\ downstream\ from\ Dayton\ Hollow\ Dam\ on\ County\ Hydrologic\ Unit\ 09020103,\ on\ left\ bank\ 0.7\ mile\ bank\ 0.7\$ downstream from Pelican River.

DRAINAGE AREA.--1,740 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

										Amm	onia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	NTU	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unius/cm 25 deg (Tempf atur	re, , C	emper- ature, water, deg C 00010)	org- wate unfli mg/ as I	N, Amn er, wa trd flt 'L mg N as	nonia ter, rd, g/L N 508)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 12 26	1110 0900	489 370	20 6.0	9.9 10.5	8.6 8.5	398 409	19 10		20.0 15.3	0.8 0.8)50)50	<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
		Date	Orth phose phat wate fltro mg/ e as I	e, Pho r, pho l, wat L unfl P mg	os- m-' rus, M er, wa trd co /L 100	coli, FEC 1 IF, Mater, 0.1 Ol/ OmL 10	Fecal coli- form, M-FC 7u MF col/ 00 mL 31625)	Fecal strep- tococc KF MF, col/ 100 ml (31673	i phy i phy pla to acio L ug	rll a rto- nk- n, l m,	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	pen second cond trat mg	ded di- ent cen- tion g/L 154)		
		SEP 20 12 26	<0.00 <0.00 <0.00				E10k E10k	E5k E2k		.0	92 89	1	0 7		

Remark codes used in this table:

Value qualifier codes used in this table:

< -- Less than E -- Estimated value

k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001													
10 NOV	1500	370	1.0	10.9	8.3	423	10.0	11.8	0.69	< 0.040		< 0.050	< 0.008
08	0815	340	6.0	12.5	8.2	472	0.5	6.7	0.75	< 0.050	< 0.050	< 0.050	< 0.010
DEC 13	0900	489	0.0	14.5	8.0	500	-5.1	1.6	0.69	< 0.050	< 0.050	0.130	< 0.010
JAN 2002 17	0920	518	0.0	14.0	8.0	479	-8.6	1.4	0.67	0.080	0.080	0.130	< 0.010
FEB 14	0900	488	0.0	10.6	7.8	474	1.5	2.0	0.74	0.090	0.110	0.130	< 0.010
MAR 18	1520	511	0.0	14.5	8.1	473	-4.5	2.2	0.84	0.130	0.130	0.100	< 0.010
APR 15	1715	663	3.0	12.4	8.0	422	24.5	8.8	0.71	< 0.050	< 0.050	0.050	< 0.010
MAY 15	1630	813	17	13.4	8.2	426	23.5	12.1	0.73	< 0.050	< 0.050	< 0.050	< 0.010
JUN 05	1615	654	3.0	9.6	8.3	418	27.0	19.3	0.72	< 0.050	< 0.050	< 0.050	< 0.010
25 JUL	1345	568	6.0	8.7	8.3	410	37.5	24.0	0.96	0.100	0.120	0.060	< 0.010
11	0900	1.070	7.0	8.3	8.4	386		24.2	0.88	0.140	0.140	0.070	< 0.010
24 AUG	1530	635	21	8.0	8.1	395	20.7	24.8	0.98	0.130	0.130	< 0.050	< 0.010
07	1530	565	8.0	9.1	8.3	396	26.0	23.0	0.80	< 0.050	< 0.050	< 0.050	< 0.010
21 SEP	1300	668	6.0	9.0	8.3	393	23.4	21.0	0.65	< 0.050	< 0.050	< 0.050	< 0.010
11	1600	614	12	9.0	8.3	392	27.3	23.0	0.66	< 0.050	< 0.050	< 0.050	< 0.010
23	1530	418	2.0	10.0	8.4	406	15.0	16.6	0.65	< 0.050	< 0.050	< 0.050	0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001								
10	< 0.02	< 0.06	E46k	E15k	E25k	6.43	86	5
NOV	0.005	0.027	F2.61	E101	50	166	0.4	_
08 DEC	< 0.005	0.037	E26k	E18k	52	16.6	94	5
13	0.007	0.041				10.3	96	2
JAN 2002	0.007	0.041				10.5	70	_
17	0.014	0.033				2.90	100	1
FEB								_
14	0.006	0.033				4.97	94	3
MAR 18	0.009	0.037				5.66	93	2
APR	0.009	0.037				3.00	93	2
15	< 0.005	0.039	<2	<2	E17k	9.95	99	4
MAY								
15	< 0.005	0.047	E40k	E12k	E4k	9.68	99	9
JUN	0.007	0.020	.1	Eal	F11	0.26	00	
05 25	$0.007 \\ 0.027$	0.029 0.081	<1 E79k	E2k E35k	E1k 67	8.36 11.6	98 97	6 9
JUL	0.027	0.001	L/7K	LOOK	07	11.0	91	,
11	0.061	0.106	E17k	<7	405	5.71	98	14
24	0.047	0.102	<1	E2k	E3k	10.5	99	22
AUG								
07	0.032	0.091	<1	E4k	24	17.2	99	13
21	0.016	0.064	E1k	E5k	E14k	11.0	97	8
SEP 11	0.015	0.064	1k	1k	E14k	14.2	100	5
23	0.013	0.068	<2	E6k	E14k E18k	14.2	94	9
45	0.012	0.000	~2	LUK	LIOK	17.1	77	,

Remark codes used in this table: < -- Less than E -- Estimated value

 $\begin{tabular}{ll} Value qualifier codes used in this table: \\ k -- Counts outside acceptable range \end{tabular}$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Tur- pH, Specif. + +	
Instan- bidity, water, conduc- org-N, Ammonia Ammonia mitrat	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002	
99 1100 370 0.0 11.5 8.3 410 9.9 10.7 0.66 <0.050 <0.050 <0.050	< 0.010
NOV	
05 1430 340 7.0 14.3 8.2 457 1.7 1.9 0.69 <0.050 <0.050 <0.050	< 0.010
DEC 11 0945 360 0.0 14.7 8.1 467 0.0 1.5 0.88 0.070 0.070 0.140	< 0.010
JAN 2003	<0.010
15 1615 311 1.0 15.7 7.9 478 -15.0 1.5 0.69 <0.050 <0.050 0.190	< 0.010
FEB	
10 1735 340 0.0 14.8 7.9 496 -18.1 1.1 0.78 <0.050 <0.050 0.130	< 0.010
MAR 24 1630 446 14.3 7.8 463 13.1 6.0 1.0 0.140 0.140 0.150	< 0.010
APR 1030 440 41 14.5 7.6 403 13.1 0.0 1.0 0.140 0.140	<0.010
14 1650 384 21 12.1 8.3 425 31.4 10.6 <0.050 <0.050 <0.050	< 0.050
MAY	
19 1730 770 35 10.2 8.3 418 16.0 15.8 0.93 <0.050 <0.050 <0.050	< 0.010
JUN 02 1700 623 6.1 9.1 8.4 419 22.0 19.0 0.85 <0.050 <0.050 0.380	< 0.010
16 1700 556 16 8.6 8.4 409 27.3 22.9 0.78 <0.050 <0.050 <0.050 <0.050	< 0.010

	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
OCT 2002								
09	0.005	0.037	<1	<4	1k	7.47	99	4
NOV								
05	< 0.005	0.034	13k	11k	5k	9.92	100	2
DEC								
11	0.009	0.042				12.6	100	1
JAN 2003	0.000	0.020				2.20	400	
15	0.009	0.038				3.39	100	2
FEB	0.005	0.025					0.5	
10	< 0.005	0.037				12.1	95	2
MAR	0.010	0.060				0.70	100	2
24	0.019	0.068				8.70	100	2
APR	0.005	0.042	F11			12.0	0.7	_
14	< 0.005	0.042	E1k	<1	<1	12.9	97	5
MAY	0.005	0.071			41	10.6	00	16
19	< 0.005	0.071	<4	<1	4k	12.6	99	16
JUN	0.006	0.044	F-01	F-11	F-11	0.04	00	0
02	0.006	0.044	E2k	E1k	E1k	9.04	98	9
16	0.009	0.067	100k	28	68	9.04	96	6

Remark codes used in this table: < -- Less than E -- Estimated value

 $\begin{tabular}{ll} Value qualifier codes used in this table: \\ k -- Counts outside acceptable range \end{tabular}$

 $LOCATION.--Lat\ 46°13'00", long\ 96°24'31", NW\ ^{1}\!\!/_{4}\ sec.\ 25, T.\ 132\ N, R.\ 46\ W., Wilkin\ County, Hydrologic\ Unit\ 09020103, 3.5\ miles\ south\ of\ Everdell\ on\ Wilkin\ County\ Highway\ 17.$

DRAINAGE AREA.--1,772 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instan- taneous dis- charge, cfs	Tur- bidity, water, unfltrd field, NTU	Dis- solved oxygen, mg/L	pH, water, unfltrd field, std units	Specif. conduc- tance, wat unf uS/cm 25 deg C	Tempe ature air, deg (, atı wa	nper-	Ammonia + org-N, water, unfltrd mg/L as N	Ammonia water, fltrd, mg/L as N	Ammonia water, unfltrd mg/L as N	Nitrite + nitrate water fltrd, mg/L as N	Nitrite water, fltrd, mg/L as N
Date	Time		(61028)	(00300)	(00400)	(00095)	(0002			(00625)	(00608)	(00610)	(00631)	(00613)
SEP 2001														
11 12	1400 0910	490	22	8.0	8.4	416	16.5	1:	 8.0	0.87	< 0.050	< 0.050	< 0.050	< 0.010
17	1000													
23 25	0945 1450	532	10	10.8	8.5	 419	18.0		 4.7	0.75	< 0.050	< 0.050	< 0.050	< 0.010
		Date SEP 20 11 12 23 25	Orth phor phat wate fltro mg/ e as I	o- s- e, Ph er, pho d, wa L unf P mg 71) (000	E cos- orus, M ter, was litrd c g/L 100 665) (31	Fig. 10 Cooling Coolin	ecal oli- orm, I-FC u MF col/ 0 mL	Fecal strep-tococci KF MF, col/ 100 mL (31673) *104 84 *84 *46 4k	Chlor phyll phyto plank ton, acid r ug/I (3221	Sus a se o- mec- sies dian m, pen co- l'al (70).	pnd. S di- pe ent, se eve m etr cor cent tra 3mm m 331) (80	us- nded edi- bent ncen- tion g/L 1154)		

Remark codes used in this table:

< -- Less than

Value qualifier codes used in this table:

* -- Collected and analyzed by Wilkin County Soil and Water Conservation District k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

						a			Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001 02	1115												
10	1045												
10	1240	384	14	9.8	8.1	439	10.0	11.5	0.76	< 0.040		E.030	E.004
15	1000												
24	0930												
29 NOV	0920												
05	0915												
07	1400	440	3.0	12.7	8.2	489	9.5	6.8	0.71	< 0.050	0.270	< 0.050	< 0.010
DEC	1600	577	0.0	14.2	0.2	501	2.0	0.7	0.72	0.050	0.050	0.120	-0.010
12 JAN 2002	1600	577	0.0	14.3	8.2	501	-2.8	0.7	0.72	0.050	0.050	0.130	< 0.010
16	1715	481	13	13.1	8.1	485	-4.3	-0.3	0.77	0.080	0.090	0.140	< 0.010
FEB													
13 MAR	1630		15	11.4	7.8	474	9.9	0.8	0.65	0.080	0.090	0.120	< 0.010
20	0910	560	19	12.6	8.0	475	-5.3	0.2	0.68	0.120	0.120	0.160	< 0.010
APR													
17	1350	768	20	11.3	8.0	438	18.5	11.2	0.76	< 0.050	< 0.050	< 0.050	< 0.010
MAY 07	0810												
07 13	0800												
15	1510	932	33	12.9	8.2	447	24.9	12.7	0.93	< 0.050	< 0.050	0.050	< 0.010
20	0840												
28 JUN	0830												
03	0920												
05	1415	742	17	9.7	8.3	430	25.9	19.0	0.81	< 0.050	< 0.050	< 0.050	< 0.010
10	0830												
17	0900	 677	26	8.6	8.2	420	21.0	25.6	0.86	 -0.050	< 0.050	0.130	0.010
26 JUL	1400	0//	36	8.0	0.2	420	31.0	25.6	0.80	< 0.050	<0.030	0.130	0.010
01	0930												
08	0930												
10 15	1200 0930	1,340	180	6.5 	8.1	360	18.2	23.5	1.5	0.080	0.080	0.420	0.020
24	1415	706	28	7.6	8.0	418	27.5	23.9	0.84	0.070	0.060	0.160	0.020
30	0920												
AUG	0515												
05 07	0715 1345	605	25	9.2	8.3	409	27.0	23.1	1.1	<0.050	< 0.050	0.070	< 0.010
12	0750		23 	9.2	6.5	409	27.0	23.1	1.1	<0.030	<0.030	0.070	<0.010
19	0750												
21	1155	707	30	8.1	8.2	403	22.2	20.8	0.88	< 0.050	< 0.050	< 0.050	< 0.010
26 SEP	0850												
03	0900												
09	0910												
11	1440	690	25	9.4	8.3	402	28.0	22.9	0.82	< 0.050	< 0.050	< 0.050	< 0.010
16 25	0810 1205	 447	10	10.0	8.3	420	 8.7	13.1	0.61	< 0.050	< 0.050	< 0.050	< 0.010
30	0915			10.0	6.3 	420	0.7	13.1	0.01	<0.030	<0.030	<0.030	<0.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002—Continued

TILK QUIL	2111 12/11/	, , , , , , , , , , , , , , , , , , ,	C I LI IIC OC	JODEN 2	oor rincoc	OILOLI	LIVIDLIK 20	oz conti
Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001								
02			*54k	*46k	*160			
10 10	<0.02	E.06	*300 310	*210 360	*>10,000 6,900	7.72	 96	 27
10 15	<0.02	E.00	*61k	*70k	*120	1.12	90 	
24			*56k	*15k	*63k			
29			*48k	*27k	*205			
NOV				1.01				
05 07	< 0.005	0.035	*7k 15k	*9k 32k	*54 54	14.0	 94	 7
DEC	<0.003	0.055	13K	32K	34	14.0	94	/
12	0.005	0.040				10.6	90	8
JAN 2002								
16	0.017	0.057				5.35	90	30
FEB 13	0.007	0.067				5.35	87	44
MAR	0.007	0.007				3.33	67	44
20	0.011	0.062				6.91	72	22
APR								
17	< 0.005	0.075		52	9k	16.3	59	67
MAY 07			*16k	*2k	*16k			
13			*6k	*2k	*19k			
15	< 0.005	0.080	<1	6k	24	10.5	70	43
20			*8k	*14k	*16k			
28 JUN			*6k	*12k	*35k			
03			*19k	*36k	*62			
05	0.011	0.076	20k	31	30	8.84	88	44
10			*33k	*63k	*76k			
17			*40k	*63k	*50k			
26 JUL	0.030	0.115	79k	57	40	9.09	85	58
01			*88k	*54k	*197			
08			*1,600k	*1,100	*7,000			
10	0.108	0.402	4,000	1,400k	7,000	11.5	80	291
15 24	0.052	0.129	*83k 20k	*94k 51	*440 115	 7.96	 76	60
30	0.032	0.129	*22k	*21k	*117k	7.90	/O 	
AUG			LLK	LIK	11/K			
05			*26k	*31k	*<10k			
07	0.032	0.110	46k	42	114k	12.8	88	39
12 19			*6k *45k	*20k *31k	*124 *96			
21	0.018	0.106	16k	85	200	12.3	84	58
26			*45	*58	*125			
SEP								
03			*42	*40	*112			
09 11	0.022	0.086	*80 25k	*58 46	*149 88	10.5	62	 52
16			*66	*100	*112			
25	0.011	0.056	48k	48	97	10.2	88	14
30			*56	*80	*84			

Remark codes used in this table:
< -- Less than
E -- Estimated value
> -- Greater than

 $[\]label{eq:Value Qualifier codes used in this table: $* -- Collected and analyzed by Wilkin County Soil and Water Conservation District $$k$ -- Counts outside acceptable range$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
07	0830												
09	0920	348	12	10.8	8.2	441	0.5	8.3	0.80	< 0.050	< 0.050	< 0.050	< 0.010
15	0845												
21	1100												
28	0830												
NOV													
05	1715	333	13	14.3	8.2	478	1.1	1.7	0.61	< 0.050	< 0.050	< 0.050	< 0.010
DEC													
11	0830		10	12.6	8.0	481	-3.0	-0.3	0.83	0.080	0.080	0.140	< 0.010
JAN 2003													
16	1010	302	10	14.6	8.0	489	-17.0	-0.3	0.94	0.080	0.080	0.190	< 0.010
FEB	10.45	202	0.0	12.2	7.6	400	165	0.2	0.00	0.000	0.000	0.150	0.010
12	1045	303	8.9	13.2	7.6	490	-16.5	-0.3	0.90	0.080	0.080	0.150	< 0.010
MAR	1500	593	11		8.2	474	7.9	()	0.92	0.120	0.120	0.160	< 0.010
25 APR	1500	393	11		8.2	4/4	7.9	6.0	0.92	0.120	0.120	0.100	<0.010
15	1340	479	47	12.1	8.2	446	20.7	12.2	0.83	< 0.050	< 0.050	< 0.050	< 0.010
MAY	1340	4/3	47	12.1	0.2	440	20.7	12.2	0.83	<0.030	<0.030	<0.030	<0.010
07	0950												
12	0800												
20	0750												
21	0950	809	29	9.5	8.3	449	15.0	13.8	0.92	< 0.050	< 0.050	< 0.050	< 0.010
29	0820												
JUN													
02	1315												
03	1405	739	28	9.2	8.0	437	22.5	19.0	0.84	< 0.050	< 0.050	< 0.050	< 0.010
09	0815												
17	1430	658	26	8.8	8.2	430	28.5	25.5	0.93	< 0.050	< 0.050	< 0.050	< 0.010
23	0800												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003—Continued

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
0.000.000	(00071)	(00003)	(31033)	(31023)	(31073)	(32211)	(70331)	(80134)
OCT 2002			*F0.51	***	**200			
07			*E25k	*73	*200	7.20		
09	< 0.005	0.040	E23k	27	E16k	7.39	89	8
15			*10k	*30k	*40			
21			*20k	*E8k	*199			
28			*34k	*56	*60			
NOV	0.000	0.041	221	171	01	11.0	0.0	2
05	0.008	0.041	22k	17k	8k	11.0	88	3
DEC	-0.005	0.026				10.6	0.2	,
11	< 0.005	0.036				12.6	83	6
JAN 2003	0.012	0.052				7.40	2.4	22
16	0.012	0.052				7.48	34	22
FEB 12	0.005	0.042				14.6	43	11
	0.003	0.042				14.0	43	11
MAR	0.012	0.000	<4k			5.04	66	25
25 APR	0.012	0.089	<4K			5.94	00	25
15	-0.005	0.052	E41-	E4k	E6k	177	58	58
MAY	< 0.005	0.053	E4k	E4K	EOK	17.7	38	38
07			*E17k	*44	*E26k			
12			*E1/k	*E21k	*E20k			
20			*E8k	*E21k	*E33k			
20	0.006	0.084	E20k	E7k	E27k	14.5	80	 41
29			*E13k	*E22k	*E5k			
JUN			"E13K	"EZZK	EJK			
02			*E14k	*E9k	*E20k			
03	0.007	0.074	<1	E18k	E45k	9.39	80	42
05	0.007	0.074	*E31k	*E31k	*44	9.39		42
17	0.012	0.090	E40k	27	60	9.39	99	6
23	0.012	0.090	*E170k	*96	*405	9.39	99 	
43			· E1/UK	. 90	.403			

Remark codes used in this table: < -- Less than E -- Estimated value

 $[\]begin{tabular}{lll} Value qualifier codes used in this table: \\ * -- Collected and analyzed by Wilkin County Soil and Water Conservation District \\ k -- Counts outside acceptable range \\ \end{tabular}$

 $LOCATION.--Lat~46^{\circ}15'42'', long~96^{\circ}32'45'', SE^{1}_{/4}~NW^{1}_{/4}~sec.~11, T.~132~N, R.~47~W., Wilkin~County, Hydrologic~Unit~09020103, 1.5~miles~east~of~Breckenridge~on~Wilkin~County~Highway~10.$

DRAINAGE AREA.--1,848 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper ature, air, deg C (00020)	atui wat deg	per- ver, uer,	mmonia + org-N, water, infltrd mg/L as N 00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 11 11 17 23 25	1330 1520 0945 0930 1230	564 513	32 19	9.7 10.0	8.4 8.5	 412 419	25.0 16.0	20. 13.	.0	0.77 0.83	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
		Da	wa flt mg te as	os- ate, Ph ter, pho rd, wa g/L unf P m	os- m-'orus, M orus, M iter, wa fitrd c g/L 100	coli, con FEC for four forms of forms of forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms for forms for forms for forms for forms for forms for for forms f	oli- s rm, to -FC 1 MF ol/ 0 mL 10	Fecal strep- ococci KF MF, col/ 00 mL	Chloro phyll a phyto- plank- ton, acid m ug/L (32211	se me sie diar pere <.06	di- per ent, se eve me metr con cent tra 3mm mg	us- nded di- ent cen- tion g/L 154)		
		SEP 20 11 11 17 23 25	 . 0.0	005 0.0	*6 *5	0k 2k * 1k *	56 48 91	*48 20k *70 *80 41k	13.6 13.9	9 - -	 	 56 16		

Remark codes used in this table:

< -- Less than

 $[\]label{eq:Value qualifier codes used in this table: $$*$ -- Collected and analyzed by Wilkin County Soil and Water Conservation District $$k$ -- Counts outside acceptable range$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		pН,	Specif.			Ammonia +			Nitrite +	
Date	Time	Instantaneous discharge, cfs	bidity, water, unfltrd field, NTU	Dis- solved oxygen, mg/L	water, unfltrd field, std units	conduc- tance, wat unf uS/cm 25 deg C	Temper- ature, air, deg C	Temper- ature, water, deg C	org-N, water, unfltrd mg/L as N	Ammonia water, fltrd, mg/L as N	Ammonia water, unfltrd mg/L as N	nitrate water fltrd, mg/L as N	Nitrite water, fltrd, mg/L as N
Duit	111110	(00061)	(61028)	(00300)	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
OCT 2001 02	1045												
10 10	1030 1215	 468	35	 9.7	8.2	412	10.5	12.2	0.97	<0.040		E.030	<0.008
15	0945												
24	0845												
29 NOV	0910												
05 07	0900 1115	 411	4.0	 11.4	8.2	 489	9.8	6.3	0.69	< 0.050	0.390	< 0.050	< 0.010
DEC 12	1400	545	0.0	13.9	8.0	502	-0.4	2.3	0.75	< 0.050	< 0.050	0.140	< 0.010
JAN 2002													
16 FEB	1415		11	13.0	8.0	486	-2.0	-0.3	0.69	0.080	0.080	0.140	< 0.010
13 MAR	1530	488	2.0	11.2	7.9	482	8.5	-0.3	0.82	0.090	0.090	0.130	< 0.010
20 APR	1110	525	11	13.6	8.2	481	-2.0	0.1	0.81	0.120	0.120	0.160	< 0.010
17	1050	729	31	10.3	8.0	442	10.8	11.7	0.99	< 0.050	< 0.050	< 0.050	< 0.010
MAY 07	0825												
13 15	0745 1225	 910	29	 11.8	8.2	450	20.1	 11.7	0.95	<0.050	< 0.050	0.070	<0.010
20	0915	910 	29 	11.6	0.2	430	20.1	11./	0.93	<0.030	<0.030	0.070	<0.010
28	0915												
JUN 03	0900												
05	1205	751	35	8.3	8.4	434	23.5	18.7	0.92	< 0.050	< 0.050	< 0.050	< 0.010
10 17	0830 0900												
26	1130	569	62	8.2	8.1	422	28.9	24.6	0.90	< 0.050	0.060	0.160	0.010
JUL 01	0910												
08	0910												
10 15	1420 0930	1,190	130	6.8	8.1	341	17.8	23.5	1.1	<0.050	0.060	0.400	0.020
24	1155	677	26	7.4	8.1	423	24.0	22.5	0.95	0.060	0.050	0.190	0.010
29	0845												
AUG 05	0845												
07	1130	604	26	8.6	8.3	412	28.7	21.7	0.98	< 0.050	< 0.050	< 0.050	< 0.010
12	0740 0740												
19 20	1730	510	21	9.1	8.2	410	23.0	20.1	0.76	< 0.050	< 0.050	< 0.050	< 0.010
26 SEP	0840												
03	0850												
09 11	0840 1225	667	36	8.5	8.5	405	27.0	21.4	0.71	<0.050	< 0.050	0.060	< 0.010
16 24	0745 1700	 544	10	10.5	8.3	418	18.8	 14.4	0.67	< 0.050	0.050	< 0.050	< 0.010
30	0845												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002—Continued

		,						
	Ortho- phos- phate, water, fltrd, mg/L	Phos- phorus, water, unfltrd	E coli, m-TEC MF, water, col/	Fecal coli- form, M-FC 0.7u MF col/	Fecal strep- tococci KF MF, col/	Chloro- phyll a phyto- plank- ton, acid m,	Suspnd. sedi- ment, sieve diametr percent	Sus- pended sedi- ment concen- tration
Date	as P (00671)	mg/L (00665)	100 mL (31633)	100 mL (31625)	100 mL (31673)	ug/L (32211)	<.063mm (70331)	mg/L (80154)
OCT 2001			*240	*110	*320			
02 10			*310	*250	*>10,000			
10	< 0.02	0.09	380k	380	2780	7.17	88	58
15 24			*61k *46k	*47k *12k	*190 *54k			
29			*23k	*13k	*100			
NOV 05			*27k	*5k	*66			
07	< 0.005	0.037	11k	15k	43k	12.3	82	11
DEC 12	< 0.005	0.046				9.24	80	17
JAN 2002 16	0.012	0.055				3.76	78	18
FEB 13	0.008	0.055				6.62	83	30
MAR 20	0.011	0.062				6.11	73	35
APR 17 MAY	< 0.005	0.094	25k	56k	5k	18.5	83	64
07			*9k	*4k	*20k			
13			*2k	*10k	*67	10.2		70
15 20	<0.005	0.099	6k *13k	12k *15k	37k *30k	12.3	64 	79
28 JUN			*9k	*20k	*40			
03			*30k	*62	*151			
05 10	0.009	0.091	10k *44k	47 *61k	59 *116	13.2	84	62
17			*15k	*40k	*94k			
26 JUL	0.032	0.130	130k	100	74	11.2	87	83
01			*100k	*80	*192			
08 10	0.101	0.420	*650 1,200	*590 1,300k	*3300 11,600k	10.1	 84	 298
15			*67k	*74k	*433			
24 29	0.049	0.158	67 *61k	61 *40k	180 *79k	11.9	84	83
AUG			TOIK	**40K	**/9K			
05		0.115	*72	*38	*<10k			
07 12	0.029	0.115	17k *54k	31 *47k	90 *108	16.6	89 	57
19			*27k	*45k	*66k			
20 26	0.018	0.093	E1k *48k	17k *82	76 *116	10.6	86	53
SEP								
03 09			*34k *40k	*92 *62	*192 *223			
11	0.019	0.105	28k	32k	116	6.11	84	65
16 24	0.012	0.066	*48k <2k	*85 42	*87 54	 9.91	83	31
30			*93	*120	*139	9.91 		

Remark codes used in this table:
< -- Less than
E -- Estimated value
> -- Greater than

 $[\]label{eq:Value Qualifier codes used in this table: $* -- Collected and analyzed by Wilkin County Soil and Water Conservation District $$k$ -- Counts outside acceptable range$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003 $\,$

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 deg C (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
07	0815												
08	1505	387	5.0	10.9	8.2	442	11.6	10.8	0.62	< 0.050	< 0.050	< 0.050	< 0.010
15	0815												
21	1020												
28	0810												
NOV													
06	1230	323	0.0	13.9	8.1	481	5.0	1.8	0.67	< 0.050	< 0.050	< 0.050	< 0.010
DEC			• •	12.			0.5		0.06	0.050	0.440	0.420	0.040
10	1615		2.0	13.6	8.3	474	8.5	-0.3	0.86	< 0.050	0.110	0.120	< 0.010
JAN 2003	1425	221	5.0	147	7.6	501	12.0	0.2	0.89	0.070	0.070	0.160	-0.010
15 FEB	1435	321	5.0	14.7	7.6	501	-13.0	-0.3	0.89	0.070	0.070	0.160	< 0.010
12	1330	329	10	12.8	7.2	510	-10.5	-0.3	0.77	0.060	0.060	0.150	< 0.010
MAR	1330	32)	10	12.0	7.2	310	10.5	0.5	0.77	0.000	0.000	0.130	VO.010
25	1105	569	17		7.7	478	9.6	5.7	1.1	0.120	0.140	0.180	< 0.010
APR	1100	207			,.,	., 0	7.0	2.,		0.120	0.1.0	0.100	10.010
15	1145	431	29	9.9	8.3	444	17.0	12.3	0.81	< 0.050	< 0.050	< 0.050	< 0.010
MAY													
07	0930												
12	0800												
20	0740		.=-	 .									- .
21	1230	753	47	9.3	8.3	455	23.0	14.5	0.93	< 0.050	< 0.050	0.060	< 0.010
29	0810												
JUN	10.40												
02	1243												
03	1150	729	30	8.3	8.2	436	20.0	18.0	0.88	< 0.050	< 0.050	< 0.050	< 0.010
09 17	0745 1215	648	45	7.2	8.0	436	25.0	23.0	0.98	< 0.050	< 0.050	< 0.050	< 0.010
23	0800		43	1.2	6.0	430	23.0	23.0	0.98	<0.030		<0.030	
43	0000												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003—Continued

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07			*88	*74	*310			
08	0.005	0.049	64	62	13k	6.07	88	17
15			*33k	*46	*77			
21			*23k	*46	*28k			
28			*9k	*12k	*72			
NOV								
06	< 0.005	0.039	8k			8.36	84	9
DEC	0.005	0.042				40.0		4.0
10	< 0.005	0.043				13.2	60	13
JAN 2003 15	0.011	0.016				8.02	92	15
FEB	0.011	0.016				6.02	92	13
12	< 0.005	0.052				16.6	48	114
MAR	CO.003	0.032				10.0	70	117
25	0.012	0.105				18.2	49	63
APR	*****							
15	< 0.005	0.073	12k	18k	11k	14.9	74	41
MAY								
07			*E8k	*88	*E34k			
12			*E20k	*E25k	*68			
20		. 	*E18k	*E24k	*100			
21	0.006	0.090	E7k	E37k	E31k	13.9	64	63
29			*E24k	*E21k	*E26k			
JUN			*E2.41	*44	*46			
02	0.005	0.000	*E24k	*44	*46	12.0		 5(
03 09	0.005	0.089	<1k *E37k	40 *64	49 *60	12.9	82	56
09 17	0.009	0.207	"E37K E140k	64	*60 76	12.9	80	 49
23	0.009	0.207	*240	*200	*395	12.9		4 9
20	_	=	270	200	373	· -	=	=

Remark codes used in this table: < -- Less than E -- Estimated value

 $[\]begin{tabular}{lll} Value qualifier codes used in this table: \\ * -- Collected and analyzed by Wilkin County Soil and Water Conservation District \\ k -- Counts outside acceptable range \\ \end{tabular}$

 $LOCATION.--Lat\ 46^{\circ}16'28", long\ 96^{\circ}34'\ 47"\ in\ NE^{1}\!\!/_{4}\ SE^{1}\!\!/_{4}\ sec.\ 4,\ T.\ 132\ N.,\ R.\ 47\ W.\ Wilkin\ County,\ Hydrologic\ Unit\ 9020103,\ on\ upstream\ left\ bank\ of\ 11th\ Street\ Bridge\ in\ Breckenridge,\ MN.$

DRAINAGE AREA.--1,991 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

GAGE.--Water stage recorder. Datum of gage is 966.73 ft above National Geodetic Vertical Datum of 1929. (From Topographic map).

REMARKS .-- Records fair.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD. -- Maximum\ recorded\ daily\ discharge\ 1,660\ ft^3/s\ July\ 12,2002,\ minimum\ daily\ discharge\ (estimated)\ 245\ ft^3/s\ Mar.\ 13,2003.$

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
2 3												
4												
5												
6												e635
7												662
8												649
9												640
10												640
11												681
12												713
13												715
14												720
15												715
16												695
17												695
18												716
19												723
20												728
21												706
22												694
23												692
24												692
25												689
26												596
27												521
28												544
29												580
30												579
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

e Estimated

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	605	e510	e580	e500	e460	689	847	842	750	735	679
2	612	614	e525	e585	e480	e490	655	829	840	681	715	673
3	624	601	e528	e582	e465	e505	642	824	839	652	670	663
4	557	590	e530	e580	e475	e495	639	801	819	646	647	718
5	527	584	e530	e575	e480	e480	637	805	780	641	641	738
6 7 8 9 10	526 524 516 515 572	581 580 547 519 516	e530 e535 e545 e545 e545	e555 e550 e548 e548 e545	e485 e492 e500 e500	e470 e460 e480 e500 e500	645 655 711 664 658	801 775 848 1,000 974	774 756 735 720 726	634 646 730 936 1,150	642 641 644 638 655	735 754 762 763 775
11	560	517	e555	e543	e500	e510	669	976	741	1,530	648	765
12	595	515	e560	e545	e520	e525	786	1,010	740	1,660	643	730
13	641	516	e560	e550	e540	e545	786	1,000	753	1,500	617	653
14	647	515	e560	e555	e550	e570	710	989	761	1,320	608	624
15	650	513	e560	e565	e540	e590	708	993	760	1,230	587	622
16	648	514	e560	e573	e530	e610	806	926	762	1,070	573	613
17	645	512	e560	e570	e520	e610	842	898	770	942	575	582
18	609	509	e560	e565	e510	e610	848	948	773	891	575	568
19	580	511	e565	e560	e510	e610	847	963	786	855	573	561
20	572	513	e575	e550	e510	e607	845	958	744	841	574	532
21	573	546	e580	e540	e510	e600	843	916	722	833	703	516
22	575	563	e550	e525	e510	e595	846	863	751	824	756	516
23	572	562	e540	e518	e510	e580	812	848	798	812	756	515
24	573	561	e525	e510	e510	e570	784	854	796	768	646	514
25	593	570	e522	e513	e512	565	791	848	794	742	606	481
26 27 28 29 30 31	587 581 575 581 585 587	564 e545 e530 e500 e495	e515 e505 e505 e525 e550 e570	e520 e530 e535 e530 e525 e515	e515 e510 e490 	565 576 660 685 714 698	768 767 774 791 863	850 849 846 984 908 854	817 821 786 765 754	683 733 765 765 758 764	427 271 301 434 469 635	474 419 413 434 435
TOTAL	18,082	16,308	16,825	16,985	14,174	17,435	22,481	27,785	23,225	27,752	18,605	18,227
MEAN	583	544	543	548	506	562	749	896	774	895	600	608
MAX	650	614	580	585	550	714	863	1,010	842	1,660	756	775
MIN	515	495	505	510	465	460	637	775	720	634	271	413
AC-FT	35,870	32,350	33,370	33,690	28,110	34,580	44,590	55,110	46,070	55,050	36,900	36,150

e Estimated

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	388	e379	e379	e379	e340	446	690	740			
2	435	368	e377	e380	e375	e340	438	687	738			
2 3	437	364	e375	e381	e365	e340	408	663	738			
4	454	368	e373	e385	e345	e341	398	649	711			
5	451	362	e371	e387	e365	e341	453	661	704			
6	471	362	e372	e391	e380	e340	489	706	712			
7	469	363	e373	e394	e370	e340	487	766	724			
8	456	362	e373	e398	e360	e341	488	780	715			
9	454	363	e374	e400	e355	e340	488	741	710			
10	453	362	e374	e399	e355	e340	488	787	720			
11	445	372	e374	e402	e355	e313	489	808	712			
12	442	363	e375	e403	e363	e256	491	802	679			
13	444	362	e375	e399	e370	e245	487	888	661			
14	438	e363	e374	e370	e372	e330	486	951	657			
15	437	e359	e377	e344	e371	e450	492	939	658			
16	439	e351	e385	e320	e368	e600	532	858	657			
17	441	e345	e395	e310	e363	e650	606	892	665			
18	442	e338	e394	e310	e360	e630	697	912	656			
19	437	e333	e393	e309	e352	e600	803	937	655			
20	438	e324	e392	e320	e345	858	797	943	653			
21	441	e390	e394	e332	e345	982	734	875	653			
22	434	e412	e393	e342	e344	1,130	780	847	717			
23	434	e407	e395	e345	e343	1,100	789	837	731			
24	431	e399	e394	e345	e345	625	778	836	919			
25	428	e400	e392	e345	e341	613	772	832	1,330			
26	426	e397	e390	e345	e339	608	770	824	1,420			
27	425	e392	e383	e345	e340	608	767	818	1,250			
28	424	e380	e371	e355	e340	600	767	818	1,040			
29	420	e377	e359	e365		514	765	783	1,010			
30	419	e379	e368	e375		482	715	735	933			
31	384		e374	e379		480		746				
TOTAL	13,581	11,105	11,788	11,254	10,005	16,077	18,100	25,011	23,868			
MEAN	438	370	380	363	357	519	603	807	796			
MAX	471	412	395	403	380	1,130	803	951	1,420			
MIN	384	324	359	309	339	245	398	649	653			
AC-FT	26,940	22,030	23,380	22,320	19,840	31,890	35,900	49,610	47,340			

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

										Α	A mmonia				Nitrite	
		Instan- taneous dis- charge,	Tur- bidity, water, unfltrd field,	Dis- solved oxygen,	pH, water, unfltrd field, std	Spe cond tan wat uS/	luc- ce, T unf	Temper- ature,	Tem atu wa	per- re,	+ org-N, water, unfltrd mg/L	Ammor water fltrd mg/L	r, v , u	nmonia vater, nfltrd mg/L	+ nitrate water fltrd, mg/L	Nitrite water, fltrd, mg/L
Date	Time	cfs (00061)	NTU (61028)	mg/L (00300)	units (00400)	25 d	egC	deg C 00020)	deg (000	g Ć	as N (00625)	as N (0060)		as N 00610)	as N (00631)	as N (00613)
SEP 2001																
11	1215	713	38	9.0	8.5	41	2	22.5	18	.8	0.79	< 0.050) <(0.050	< 0.050	< 0.010
11	1300					-	-		-	-						
17	0930					-			-	-						
23 25	0900 1020	696	18	9.7	8.5	41		13.1	13		0.77	< 0.050) <(0.050	< 0.050	< 0.010
			Ort	10-			Fecal	l Fo	ecal	Chlor	o- Sus	pnd.	Sus-			
			pho		Е	coli,	coli-		rep-	phyll			pended	l		
			pha			-TEC	form		cocci	phyto		ent,	sedi-			
			wat fltı			MF,	M-F0		KF ⁄IF,	plank		eve	ment			
			mg			ater, col/	0.7u M		ol/	ton, acid r			concen- tration			
		Dat	e as	P m		0 mL	100 m		0 mL	ug/L		3mm	mg/L			
			(006	(71) (00	665) (3	1633)	(31625	5) (31	(673)	(3221		331) ((80154))		
		SEP 20	001													
		11		05 0.	093	80	80k		28k	15.2	2 9	95	60			
		11		•		*30	*38		95							
		17				50k	*74k		64							
		23			~	100	*85k	*1	20							

< 0.005 Remark codes used in this table:

0.070

120

< -- Less than

 $[\]begin{tabular}{lll} Value qualifier codes used in this table: \\ * -- Collected and analyzed by Wilkin County Soil and Water Conservation District \\ k -- Counts outside acceptable range \\ \end{tabular}$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			_			a		Ammonia				Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001													
02	1015											 F 020	
10 10	1030 1035	570	28	9.6 	8.2	424 	11.0	12.4	0.72	<0.040		E.030	< 0.008
15	0930												
24	0810												
29	0900												
NOV	00.45												
05 07	0845 0850	608	6.0	 11.5	 8.4	482	8.3	6.2	0.87	< 0.050	< 0.050	< 0.050	< 0.010
DEC.	0030	000	0.0	11.5	0.4	702	0.5	0.2	0.07	VO.030	VO.030	VO.030	VO.010
12	1105		8.4	12.9	8.1	503	-0.9	-0.3	0.68	< 0.050	< 0.050	0.140	< 0.010
JAN 2002	1245	520	1.4		0.1	402	1.0	0.2	0.72	0.000	0.000	0.140	-0.010
16 FEB	1245	528	14		8.1	492	-1.8	-0.3	0.72	0.080	0.080	0.140	< 0.010
13	1245	499	2.0	11.5	7.9	480	7.0	-0.3	0.77	0.070	0.080	0.120	< 0.010
MAR													
20	1320	607	11	14.0	8.2	482	-2.8	0.5	0.79	0.120	0.120	0.170	< 0.010
APR 17	1050	837	49	9.8	8.2	436	9.0	13.0	0.94	< 0.050	< 0.050	< 0.050	< 0.010
MAY	1030	037	17	7.0	0.2	150	7.0	15.0	0.71	10.050	10.050	40.050	10.010
07	0840												
13	0730 0955	1,000	35	 11.5	8.2	 453	 14.5	12.2	1.1	<0.050	< 0.050	0.080	<0.010
15 20	0933	1,000	33	11.3	0.2	433	14.3	12.2	1.1	<0.030	<0.030	0.080	<0.010
28	0930												
JUN													
03	0830 0945	 793	45	8.0	8.3	434	20.0	19.0	0.88	< 0.050	< 0.050	< 0.050	< 0.010
05 10	0830	193 	43	6.0	6.5	434	20.0	19.0	0.88	<0.030	<0.030	<0.030	<0.010
17	0900												
26	0850	829	65	7.1	8.3	420	24.5	25.1	1.1	< 0.050	< 0.050	0.130	< 0.010
JUL	0000												
01 10	0900 1635	1,210	140	6.3	8.1	338	18.8	22.9	1.6	0.050	0.060	0.390	0.020
15	0830												
18	0900												
24	0930	754	31	7.3	8.1	422	20.5	22.5	0.99	< 0.050	< 0.050	0.180	0.010
29	0830												
AUG 05	0830												
07	0920	636	33	8.1	8.4	410	22.8	21.1	0.90	< 0.050	< 0.050	< 0.050	< 0.010
12	0730												
19	0730												
21 26	0940 0830	694 	50	7.8	8.2	386	22.5	20.4	0.86	< 0.050	<0.050	< 0.050	<0.010
SEP	0030												
03	0840												
09	0830					405	10.0					0.050	
11 16	0955 0730	812	36	8.0	8.3	405 	19.9	21.3	0.83	< 0.050	<0.050	0.050	< 0.010
25	0730	 477	16	9.8	8.5	418	7.1	13.0	0.64	< 0.050	0.050	< 0.050	< 0.010
30	0830												

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002—Continued

		,						
	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-		phyll a	sedi-	pended
		Dhoo			strep-			
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
	(00071)	(00005)	(31033)	(31023)	(31073)	(32211)	(70331)	(00154)
OCT 2001								
02			*260	*130	*310			
10	< 0.02	E.06	360	670	1,170	6.14	95	42
10			*600k	*1,700	*>10,000			
15			*76k	*41k	*120			
24			*39k	*16k	*48k			
29			*11k	*20k	*76			
NOV								
05			*20k	*15k	*114			
07	< 0.005	0.038	10k	6k	56k	10.5	85	12
DEC DEC	<0.003	0.050	IOK	OK	JOK	10.5	0.5	12
	.0.005	0.054				0.00	0.6	21
12	< 0.005	0.054				9.99	86	21
JAN 2002								
16	0.013	0.044				3.45	90	23
FEB								
13	0.008	0.049				4.15		
MAR								
20	0.011	0.065				5.07	93	26
APR	0.011	0.003				5.07	93	20
	.0.005	0.110	201	1.01	50	10.0	00	0.1
17	< 0.005	0.119	20k	10k	50	19.9	89	81
MAY								
07			*9k	*4k	*13k			
13			*13k	*20k	*89			
15	< 0.005	0.101	17k	51k	42	10.8	67	153
20			*15k	*15k	*34k			
28			*20k	*13k	*61k			
JUN			201	13K	OIK			
			*201-	*56	*165			
03			*20k			10.7		
05	0.011	0.098	36k	53	71	10.7	92	72
10			*25k	*62k	*132			
17			*E130k	*63k	*148			
26	0.028	0.140	200k	100	200	14.1	97	89
JUL								
01			*E43	*110	*253			
10	0.108	0.425	2,900	>6,000	9,800	16.0	87	274
15			*42k	*120k	*606			
			*990					
18				*150k	*500			
24	0.048	0.154	10k	23	215	9.69	92	82
29			*58k	*84k	*139k			
AUG								
05			*53	*47	*<10k			
07	0.025	0.119	37	25	209	19.2	95	57
12			*28k	*32k	*104			
19			*49k	*23k	*116			
21	0.018	0.140	420	420	660	15.0	91	96
26			*51k	*50	*144			
SEP								
03			*44k	*92	*207			
09			*26k	*60k	*320			
11	0.020	0.115	28k	21k	142	11.7	89	80
16			*31k	*60	*112			
25	0.012	0.072	41	140	112	9.59	95	30
			*52					
30			*32	*140	*145			

Remark codes used in this table:
< -- Less than
E -- Estimated value
> -- Greater than

 $[\]label{eq:Value Qualifier codes used in this table: $* -- Collected and analyzed by Wilkin County Soil and Water Conservation District $$k$ -- Counts outside acceptable range$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs	Turbidity, water, unfltrd field, NTU	Dis- solved oxygen, mg/L	pH, water, unfltrd field, std units	Specif. conduc- tance, wat unf uS/cm 25 degC	Temperature, air, deg C	Temper- ature, water, deg C	Ammonia + org-N, water, unfltrd mg/L as N	Ammonia water, fltrd, mg/L as N	water, unfltrd mg/L as N	Nitrite + nitrate water fltrd, mg/L as N	Nitrite water, fltrd, mg/L as N
		(00061)	(61028)	(00300)	(00400)	(00095)	(00020)	(00010)	(00625)	(00608)	(00610)	(00631)	(00613)
OCT 2002													
07	0800												
08	1710	477	5.0	10.8	8.2	453	9.3	11.0	0.69	< 0.050	< 0.050	< 0.050	< 0.010
15	0800												
21 28	1015 0800												
NOV	0800												
06	0955	359	0.0	14.0	8.0	485	1.0	0.7	0.66	< 0.050	< 0.050	< 0.050	< 0.010
JAN 2003	0,00	557	0.0	1	0.0	.00	1.0	0.7	0.00	10.020	10.020	10.020	10.010
15	1045	344	30	13.7	7.2	439	-17.0	0.3	0.77	0.160	0.160	0.120	< 0.010
FEB													
12	1625	314	3.4	12.9	7.9	510	-7.0	-0.3	0.88	0.060	0.060	0.150	< 0.010
MAR													
25	0955	587	20		7.9	480	9.6	6.0	1.2	0.120	0.170	0.170	< 0.010
APR 15	0025	467	35	9.5	8.5	445	9.4	11.8	0.81	< 0.050	< 0.050	-0.050	< 0.010
MAY	0935	467	33	9.5	8.3	445	9.4	11.8	0.81	<0.050	<0.050	< 0.050	<0.010
07	0745												
12	0800												
20	0730												
21	1440	888	40	9.8	8.2	475	24.5	16.0	0.89	< 0.050	< 0.050	0.070	< 0.010
28	0800												
JUN													
02	1100												
03	0935	767	38	7.8	8.3	437	16.5	17.4	0.96	< 0.050	< 0.050	< 0.050	< 0.010
09	0730												
17	1000	714	48	6.9	8.1	436	22.5	23.6	1.0	< 0.050	< 0.050	< 0.050	< 0.010
23	0800												

	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water.	phorus,	MF,	M-FĆ	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
	mg/L	unfltrd	col/	col/	col/	acid m.	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	$(80\overline{1}54)$
OCT 2002								
07			*110	*99	*400			
08	0.006	0.052	42k	68	38	6.81	84	23
15			*32k	*46	*88			
21			*60k	*48	*29k			
28			*80	*E31k	*E38k			
NOV								
06	0.036	0.037	17k	14k	19k	8.65	92	7
JAN 2003								
15	0.012	0.049				7.28	91	9
FEB								
12	< 0.005	0.050				17.0	94	7
MAR								
25	0.062	0.134				16.2	93	58
APR								
15	< 0.005	0.084	E16k	E12k	E15k	12.5	91	47
MAY								
07			*8k	*E31k	*62			
12			*E36k	*E34k	*111			
20			*E10k	*E40k	*137			
21	0.006	0.087	E21k	E18k	E25k	13.4	86	45
28			*E16k	*E24k	*50			
JUN			* 4.4	*E211	*04			
02	0.005	0.154	*44	*E31k	*84	15.1		101
03	0.005	0.154	E24k	E22k	67	15.1	64	121
09 17	0.010	0.128	*E42k E130k	*E41k	*69	 15.1		82
				160	196		90	
23			*230	*210	*478			

Remark codes used in this table: < -- Less than E -- Estimated value

 $[\]begin{tabular}{lll} Value qualifier codes used in this table: \\ * -- Collected and analyzed by Wilkin County Soil and Water Conservation District \\ k -- Counts outside acceptable range \\ \end{tabular}$

LOCATION.--Lat 45°53'15", long 96°12'48", NW¹/₄ NW¹/₄ sec. 21, T. 130 N, R. 45 W., Grant County, Hydrologic Unit 9020102, 1 mile northwest of Norcross on Minnesota Highway 9.

DRAINAGE AREA.--181 mi².

WATER-QUALITY RECORDS.

PERIOD OF RECORD.--September 2001 through September 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 10 24	1515 1500	 12	52 40	9.1 10.4	8.4 8.3	1,460 1,560	23.0 16.0	21.2 16.1	 1.5	0.060	0.070	0.330	0.020

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
SEP 2001 10 24	0.195	0.220	E800k 250	440 450	373 277	9.95	 96	 43

Remark codes used in this table:

E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001													
09 NOV	1325	6.5	36	11.9	8.2	1,610	19.5	10.4	1.5	< 0.040		< 0.050	< 0.008
05 DEC	1500	12	18	13.1	8.1	1,720	25.0	10.6	1.5	< 0.050	< 0.050	< 0.050	< 0.010
11	1130	18	0.0	12.9	7.9	1,800	4.3	-0.2	1.2	0.080	0.090	0.630	< 0.010
JAN 2002 15 FEB	1300	12	13	12.5	7.8	2,340	-7.6	-0.3	1.7	< 0.050	< 0.050	0.390	< 0.010
12	1245	9.6	7.8	11.1	7.8	2,270	-5.7	-0.3	1.8	< 0.050	< 0.050	0.190	< 0.010
MAR 19 APR	1130	14	4.0	11.1	7.7	1,270	-10.0	-0.3	1.5	0.160	0.160	0.780	0.010
16 MAY	1315	38	47	12.0	8.0	1,200	29.8	16.9	1.6	< 0.050	< 0.050	0.260	0.010
14 JUN	1245	96	60	12.0	8.0	1,590	18.5	11.5	2.2	< 0.050	0.070		0.030
04 25 JUL	1235 0940	25 7.1	100 98	8.1 5.4	8.2 7.8	1,600 1,580	19.5 28.8	17.0 25.4	2.1 2.2	0.120 0.170	0.120 0.180	0.140 0.400	0.020 0.110
09 23	1445 1250	228 205	120 19	5.5 5.9	8.0 7.6	1,080 1,200	32.5 20.4	26.5 22.4	2.2 1.8	0.110 0.050	0.120 <0.050	0.650 0.130	0.060 0.020
AUG 06 20	1235 1125	63 31	91 54	7.4 8.0	8.1 8.1	1,280 1,280	22.5 24.0	20.2 19.4	2.6 1.7	<0.050 <0.050	<0.050 <0.050	0.100 0.060	<0.010 <0.010
SEP 10 24	1210 1345	14 4.4	61 22	8.3 14.0	8.1 8.4	1,340 1,430	22.1 17.0	20.9 10.6	1.7 1.1	0.080 <0.050	0.150 <0.050	0.320 <0.050	0.020 <0.010

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT 2001	· ·			, ,		, ,	, ,	, ,
09	0.07	0.18	240	330	274	29.3	100	33
NOV								
05 DEC	< 0.005	0.114	E18k	E11k	E34k	42.5	97	45
DEC 11	0.020	0.081				10.2	100	6
JAN 2002	0.020	0.001				10.2	100	Ü
15	< 0.005	0.090				32.4	62	66
FEB 12	< 0.005	0.108				50.9	65	28
MAR	<0.003	0.108				30.9	03	28
19	0.098	0.211				18.0	88	11
APR								
16 MAY	0.018	0.191	130k	200	120	62.2	96	40
MA 1 14	0.048	0.224	E5k	26k	60k	17.2	95	94
JUN	0.010	0.221	Lok	2010	OOK	17.2	,,,	<i>,</i> ,
04	0.041	0.258	1k	110	88	32.9	100	99
25	0.120	0.310	480k	430	330	15.5	99	79
JUL 09	0.207	0.532	1,400k	1,900k	6,900	42.2	94	168
23	0.332	0.521	40k	47k	362	23.1	88	72
AUG								
06	0.144	0.477	100k	120	315	63.5	98	161
20 SEP	0.096	0.287	60k	150	276	34.1	98	80
SEP 10	0.156	0.314	540	410	296	22.9	98	86
24	0.090	0.135	130k	57	50	4.78	99	5

Remark codes used in this table: < -- Less than E -- Estimated value

 $\begin{tabular}{ll} Value & qualifier codes used in this table: \\ & k & -- Counts & outside & acceptable & range \\ \end{tabular}$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

			_						Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
08 NOV	1015	15	33	10.5	8.2	1,440	10.1	7.9	1.4	< 0.050	< 0.050	0.170	< 0.010
05 DEC	1010	16	12	13.6	8.0	1,700	2.5	0.1	1.2	< 0.050	< 0.050	0.250	< 0.010
10 JAN 2003	1105	13	0.0	14.0	7.9	1,990	8.5	-0.3	1.4	0.070		0.280	< 0.010
14	1120	2.7	26	13.9	7.4	2,300	17.0	-0.4	1.4	0.230	0.230	0.430	< 0.010
FEB 11	1300	5.8	1.7	14.8	7.3	2,570	-10.1	-0.4	1.6	0.120	0.120	0.290	< 0.010
MAR 26 APR	0910	8.3	11		7.7	784	5.8	-0.7	1.7	0.530	0.530	0.400	0.010
16 MAY	0910	25	100	9.8	8.0	1,440	1.2	8.0	1.8	0.100	0.100	< 0.050	< 0.010
20 JUN	1225	44	130	10.0	8.2	1,600	11.5	12.8	1.9	0.050	0.070	0.450	0.020
04 18	0910 0855	19 16	95 120	7.4 5.6	8.1 8.0	1,640 1,640	19.5 22.0	17.1 22.8	1.9 2.5	0.130 0.120	0.150 0.120	0.100 0.150	0.010 0.020
JUL 10 22	0850 0805	136 56	150 130	6.9 6.9	7.7 8.0	1,320 1,400	17.0 19.9	21.2 22.2	1.9 2.0	<0.050 <0.050	<0.050 <0.050	0.180 0.100	0.010 <0.010
AUG 05 19	1510 1705	20 5.8	58 20	8.5 10.1	8.3 8.3	1,450 1,480	32.0 24.9	26.5 31.2	1.7 1.5	<0.050 <0.050	<0.050 <0.050	0.060 <0.050	<0.010 <0.010
SEP						,	27.7		1.5				
04	0855	0.22	12	7.8	7.8	1,670	13.4	14.8	1.4	< 0.050	< 0.050	< 0.050	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT 2002								
08	0.103	0.234	170k	560	107	24.7	100	58
NOV	<0.005	0.070	E 11c	1.41-	161-	25.2	97	66
05 DEC	< 0.005	0.079	E1k	14k	16k	25.2	97	00
10	< 0.005	0.049				0.270	86	112
JAN 2003								
14	< 0.005	0.044				7.20	54	269
FEB 11	< 0.005	0.072					41	145
MAR	CO.003	0.072					41	143
26	0.107	0.160				7.96	94	8
APR								
16	0.022	0.242	E93k	140	342	46.8	97	90
MAY 20	0.031	0.194	E60k	E31k	E27k	27.6	98	99
JUN	0.031	0.174	LOOK	LJIK	L2/K	27.0	76	"
04	0.047	0.218	270	350	257	32.9	100	112
18	0.030	0.247	E470k	590	620		100	110
JUL								
10	0.262	0.434	E94k	130	330	2.14	90	118
22	0.168	0.368		260	323	27.8	96	134
AUG	0.169	0.215	(71-	120	200	40.0	00	89
05	0.168	0.315	67k	120	208	49.8	99	
19 SEP	0.120	0.194	500	490	570	7.10	97	18
04	0.029	0.093	820	720	826	5.09	98	25
07	0.02)	0.073	320	720	020	5.07	70	23

Remark codes used in this table:

 $\label{eq:Value qualifier codes used in this table: } k \mbox{ -- Counts outside acceptable range}$

< -- Less than
E -- Estimated value

LOCATION.--Lat 45°49'15", long 96°29'25", SW1/4 SW1/4 sec. 8, T. 127 N., R. 46 W., Traverse County, Hydrologic Unit 9020102, 0.5 mi north of Wheaton on U.S. Highway 75.

DRAINAGE AREA.--812 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 to September 2003.

PERIOD OF DAILY RECORD.--WATER TEMPERATURE: December 2001 to September 2003. SPECIFIC CONDUCTANCE: December 2001 to September 2003.

PH: December 2001 to September 2003. DISSOLVED OXYGEN: February 2002 to September 2003.

TURBIDITY: December 2001 to September 2003.

INSTRUMENTATION .-- Water-quality monitor.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum recorded, 30.5°C, June 25, 2002; minimum recorded, 0°C, on many days during winter months. SPECIFIC CONDUCTANCE: Maximum recorded, 2,400 microsiemens, December 28, 2002; minimum recorded, 282 microsiemens, July 11, 2002. PH: Maximum recorded, 8.8 units, April 27-30, 2003, May 1-6, 2003, and May 12, 2003; minimum recorded, 7.2 units, July 12, 2002. DISSOLVED OXYGEN: Maximum recorded, 29.4 mg/L, January 11, 2003; minimum recorded, 1.5 mg/L, October 3, 2002. TURBIDITY: Maximum recorded, 1,100 NTU's, July 8, 2002; minimum recorded, 4.0 NTU's, January 1, 2003, and January 5-12, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solve oxyge mg/I (0030	wa uni d fie en, s	ter, control of the c	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temp aturdair, deg (0002	e, C	emper- ature, water, deg C 00010)	Amm + org- wat unfl mg as (006	N, Ai er, v trd /L N	mmonia water, fltrd, mg/L as N 00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 10 24	1430 1330	23 24	35 26	9.6 11.6		.3 .6	1,350 1,360	21.0 16.0		17.9 13.2	1.:		 0.050	<0.050	<0.050	<0.010
		Da	ph ph wa flt m _i te as	rd, g/L s P	Phos- phorus, water, unfltrd mg/L (00665)	E coli m-TE0 MF, water col/ 100 m (31633	C for M- , 0.7u co L 100	li- m, FC MF ol/ mL	Fecal strep- tococc KF MF, col/ 100 m (31673	i phy i phy pla to acio L ug	oro- yll a yto- .nk- on, d m, g/L 211)	Suspno sedi- ment, sieve diamet percen <.063m (70331	per se m r con t tra m m	us- nded di- ent cen- tion g/L 154)		
		SEP 2 10 24		 088	0.170	500 140		50 50	253k 160	20	. <u>.</u>).5	98 95		13 35		

Remark codes used in this table:

Value qualifier codes used in this table:

< -- Less than

k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		"II	Cmasif			Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	bidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2001	1500	10	4.4	0.0	0.1	1.520	20.5	10.5	1.4	-0.040		.0.050	.0.000
09 NOV	1500	19	44	9.9	8.1	1,530	20.5	10.5	1.4	< 0.040		< 0.050	< 0.008
05 DEC	1325	35	32	11.7	8.0	1,400	25.8	7.6	1.7	< 0.050	0.060	< 0.050	< 0.010
11 JAN 2002	1330	18	7.0	13.3	7.7	1,810	5.0	0.0	1.4	< 0.050	0.050	0.410	< 0.010
15	1500	12	13	11.2	7.5	2,220	-6.9	-0.3	1.6	0.080	0.090	0.400	< 0.010
FEB 12	1550	5.8	4.0	11.9	7.5	2,050	-3.2	-0.3	1.5	< 0.050	< 0.050	0.190	< 0.010
MAR 19	1425	29	5.0	13.8	7.8	1,310	-0.2	-0.2	1.3	0.170	0.170	0.940	0.020
APR 16	1500	116	46	11.0	8.0	1,260	31.9	18.5	1.4	< 0.050	< 0.050	2.30	0.070
MAY 14	1355	200	58	11.6	8.1	1,430	19.8	13.4	1.9	0.070	0.080	2.50	0.060
JUN 04	1400	65	51	9.8	8.3	1,550	23.0	17.0	1.6	0.080	< 0.050	0.110	0.010
25	0830	71	38	9.8 5.7	8.3	1,380	30.0	27.0	2.0	< 0.050	< 0.050	< 0.050	< 0.010
JUL	0020	, -	20	2.,	0.0	1,000	20.0	27.10	2.0	101020	10.000	10.020	101010
09	1600	321	100	4.7	7.7	714	31.5	27.0	1.6	0.120	0.120	0.780	0.080
23	1430	141	32	6.9	7.7	1,180	23.0	22.5	1.7	< 0.050	< 0.050	0.150	0.010
AUG 06	1415	77	61	7.6	8.1	1,280	23.1	21.3	1.8	< 0.050	< 0.050	< 0.050	< 0.010
20	1250	44	43	8.9	8.1	1,250	25.0	20.7	1.6	< 0.050	< 0.050	0.080	< 0.010
SEP		• •		3.7		-,200						2.300	
10	1430	37	57	8.0	8.3	1,340	26.8	21.0	1.6	< 0.050	< 0.050	< 0.050	< 0.010
24	1130	29	24	9.2	8.2	1,460	15.5	9.8	1.3	< 0.050	0.070	< 0.050	< 0.010

Date	Orthophos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2001								
09	0.05	0.19				27.8	99	65
NOV 05	0.052	0.193	37k	27k	63k	32.4	99	24
DEC	0.032	0.193	37K	2/K	UJK	32.4	77	24
11	0.049	0.114				9.75	75	37
JAN 2002	0.000	0.000				1.1.0	0.4	25
15 FEB	0.009	0.080				14.2	94	35
12	0.012	0.098				21.0	99	8
MAR								
19 APR	0.131	0.198				3.45	94	8
16	0.111	0.136	24k	45k	38k	69.9	99	44
MAY								
14	0.100	0.231	63k	47k	60k	15.8	99	72
JUN 04	0.056	0.186	<1	82	112	24.9	100	43
25	0.030	0.186	100k	650	754	28.1	99	43 87
JUL	0.077	0.200	100K	030	734	20.1	"	07
09	0.304	0.544	120k	270k	1,800k	23.2	98	119
23	0.308	0.488	<5k	58k	403	23.3	99	91
AUG								
06	0.147	0.334	56	110	447	60.8	100	65
20	0.104	0.261	40k	180	256	1.64	99	45
SEP	0.004	0.244	270	4.401	110	26.0	100	7.5
10	0.084	0.244	270	440k	110	26.0	100 98	75 26
24	0.075	0.162	130	110	86	4.04	98	36

Remark codes used in this table:

< -- Less than

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	R	Г	DECEMBE	R		JANUARY	•
1 2										0.1 0.1	0.1 0.0	0.1 0.1
3										0.1	0.0	0.1
4 5										0.1 0.1	0.1 0.1	0.1 0.1
6												
7										0.1 0.1	0.1 0.0	0.1 0.1
8 9										0.1 0.2	0.0 0.1	0.1 0.1
10										0.2	0.1	0.1
11										0.2	0.0	0.1
12							0.1	0.1	0.1	0.2	0.0	0.1
13 14							0.2 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.0 0.0	$0.0 \\ 0.0$
15							0.2	0.1	0.1	0.1	0.0	0.0
16							0.2	0.1	0.1	0.1	0.0	0.0
17 18							0.2 0.2	$0.0 \\ 0.0$	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	$0.0 \\ 0.0$
19							0.2	0.0	0.1	0.1	0.0	0.1
20							0.2	0.1	0.1	0.1	0.0	0.1
21 22							0.2 0.1	$0.0 \\ 0.0$	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	$0.0 \\ 0.0$
23							0.1	0.0	0.1	0.1	0.0	0.0
24 25							0.1 0.1	0.1 0.0	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	0.0 0.1
26							0.1	0.1	0.1	0.2	0.1	0.1
27							0.1	0.1	0.1	0.1	0.0	0.1
28 29							0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	0.0 0.1
30							0.1	0.1	0.1	0.1	0.0	0.1
31							0.1	0.1	0.1	0.1	0.0	0.1
MONTH							0.2	0.0	0.1	0.2	0.0	0.1
		FEBRUARY			MARCH			APRIL			MAY	
1 2	0.1 0.1	0.0 0.0	0.1 0.1	0.1 0.2	0.0 0.0	0.0 0.1				11.9 11.8	10.0 8.0	10.9 9.9
3	0.1	0.0	0.1	0.2	0.0	0.1				13.6	9.1	11.2
4 5	0.1 0.1	$0.0 \\ 0.0$	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	0.1 0.1				13.9 13.2	11.2 10.5	12.5 11.8
6	0.2	0.0	0.1	0.1	0.0	0.1				13.9	11.0	12.2
7	0.3	0.1	0.1	0.1	0.0	0.1				12.6	8.8	10.7
8 9	0.3 0.1	0.1 0.0	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	$0.0 \\ 0.0$				8.8 7.4	7.4 6.0	8.1 6.7
10	0.1	0.0	0.1	0.1	0.0	0.0				9.9	6.1	7.8
11	0.2	0.0	0.1	0.1	0.0	0.1				9.8	9.2	9.6
12 13	0.1 0.1	$0.0 \\ 0.0$	$0.0 \\ 0.0$	0.2 0.2	$0.0 \\ 0.0$	0.1 0.1				10.6 13.2	8.7 9.6	9.6 11.3
14	0.2	0.0	0.1	0.1	0.0	0.0				15.0	11.7	13.3
15	0.2	0.0	0.1	0.1	0.0	0.0				16.9	13.6	15.0
16 17	0.2 0.2	0.0 0.0	0.1 0.1	0.1 0.1	$0.0 \\ 0.0$	$0.0 \\ 0.0$	18.1	14.8	16.5	15.6 14.6	12.8 12.1	14.2 13.5
18	0.1	0.0	0.0	0.1	0.0	0.0	16.5	11.5	14.3	15.0	11.6	13.3
19 20	0.1 0.2	0.0 0.0	0.0 0.1				11.5 10.5	8.4 7.8	9.7 9.1	15.6 17.0	11.7 12.7	13.6 14.7
21	0.2	0.0	0.1				9.8	7.9	8.5	17.2	13.5	15.4
22	0.1	0.0	0.0				9.8	7.3	8.4	16.5	13.8	15.2
23 24	0.2 0.1	$0.0 \\ 0.0$	$0.0 \\ 0.0$				13.6 13.3	7.5 9.3	10.2 11.3	15.9 14.8	11.9 9.8	13.8 12.2
25	0.1	0.0	0.0				9.3	5.7	7.4	16.8	12.8	14.7
26	0.1	0.0	0.0				8.6	6.4	7.3	18.8	15.3	16.8
27 28	0.1 0.1	0.0 0.0	$0.0 \\ 0.0$				7.5 7.3	4.9 4.8	6.5 5.9	21.1 22.9	16.4 19.0	18.5 20.6
29							10.1	5.9	7.8	23.3	20.3	21.9
30 31							12.2	8.6	10.3	23.6 23.8	20.4 19.4	21.9 21.5
MONTH	0.3	0.0	0.1	0.2	0.0	0.1	18.1	4.8	9.5	23.8	6.0	13.6
MICHIE	0.3	0.0	0.1	0.2	0.0	0.1	10.1	4.0	9.3	43.0	0.0	15.0

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	,	S	ЕРТЕМВЕ	ER
1	24.0	20.1	22.1	30.0	27.3	28.8	27.8	24.4	25.9	25.2	22.0	23.7
2	22.5	17.6	19.9	29.2	25.5	26.6	25.8	22.0	23.9	24.6	22.1	23.5
3	17.6	15.4	16.0	25.7	24.1	24.9	24.6	22.3	23.4	24.1	19.6	22.0
4	20.5	14.3	17.0	27.0	24.7	25.7	25.4	22.4	23.6	23.6	20.7	22.4
5	23.3	17.3	20.3	28.2	23.9	25.7	26.3	22.6	24.3	25.8	22.0	23.6
6	23.0	19.1	21.4	29.7	26.3	27.7	25.0	21.5	22.6	26.8	23.5	25.0
7	22.9	20.0	21.6	28.7	25.4	27.4	25.3	20.4	22.5	26.6	24.5	25.5
8	23.3	18.9	21.0	26.4	22.9	24.7	27.1	23.4	25.0	25.8	23.7	24.9
9	25.4	20.5	22.5	27.2	24.4	25.6	26.5	24.0	25.2	25.2	21.9	23.7
10	25.1	23.3	24.1	26.9	21.0	24.4	25.3	22.8	24.1	22.3	19.6	21.1
11	25.0	20.4	22.6	21.3	19.8	20.6	27.3	22.6	24.9	22.1	20.2	21.3
12	24.4	21.5	22.6	23.4	21.3	22.3	26.5	22.8	24.3	22.0	20.4	21.3
13	21.8	18.7	19.8	24.7	22.7	23.6	24.4	20.3	22.3	21.6	20.0	20.8
14	22.9	17.5	19.9	26.0	23.9	24.8	23.2	21.0	22.0	20.0	18.5	19.3
15	23.6	20.2	22.0	26.8	24.6	25.6	23.5	21.0	22.2	18.9	16.1	17.5
16	23.4	20.9	22.2	27.8	25.3	26.5	22.7	20.3	21.2	20.3	16.3	18.1
17	23.8	21.1	22.5	29.1	26.6	27.7	21.1	18.7	20.0	20.9	18.3	19.7
18	23.2	21.2	21.9	28.3	26.6	27.6	21.9	16.9	19.4	22.0	19.1	20.5
19	24.4	21.7	22.9	28.8	26.6	27.6	23.6	18.5	21.0	21.9	19.2	20.5
20	24.3	21.4	23.1	28.7	26.9	27.8	22.8	19.6	21.0	19.2	17.1	18.1
21	23.9	21.1	22.3	28.2	26.2	27.2	21.6	19.8	20.7	17.5	15.1	16.3
22	27.5	20.9	23.5	26.2	24.1	25.0	23.4	20.2	21.8	15.1	13.3	14.1
23	27.2	25.3	26.3	24.1	21.8	22.7	24.8	20.9	22.8	13.3	11.7	12.5
24	28.6	25.5	26.8	22.4	21.0	21.8	26.8	21.6	24.1	12.6	9.9	11.3
25	30.5	27.2	28.6	24.2	21.1	22.5	27.6	23.0	25.5	12.2	11.4	11.7
26 27 28 29 30 31	30.0 29.9 29.6 30.3 29.8	27.0 25.6 26.6 25.7 26.8	28.5 27.9 28.2 27.8 28.4	25.7 26.9 26.3 27.3 28.4 28.5	22.9 24.6 24.7 23.6 25.3 25.2	24.2 25.6 25.5 25.3 26.7 26.9	28.1 27.6 26.7 26.6 26.0 25.5	24.0 24.1 23.9 23.2 22.2 20.5	26.2 26.0 25.4 25.1 23.5 22.8	13.1 13.7 13.3 13.3 16.4	10.2 10.7 12.3 12.6 13.0	11.7 12.2 12.8 12.9 14.3
MONTH	30.5	14.3	23.1	30.0	19.8	25.5	28.1	16.9	23.3	26.8	9.9	18.7
YEAR	30.5	0.0	12.6									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
		OCTOBER	1	N	OVEMBE	R	D	ECEMBE	R		JANUARY	7
1 2										2,200 2,240	2,130 2,200	2,170 2,220
3										2,240	2,240	2,240
4 5										2,270 2,250	2,240 2,210	2,260 2,230
6										2,210	2,190	2,210
7										2,210	2,190	2,200
8 9										2,200 2,180	2,170 2,140	2,190 2,170
10										2,180	2,150	2,170
11 12							1,710	1,680	1,690	2,170 2,140	2,130 2,110	2,150 2,120
13							1,720	1,700	1,710	2,130	2,120	2,130
14 15							1,730 1,740	1,720 1,720	1,720 1,730	2,140 2,140	2,120 2,120	2,120 2,120
16							1,740	1,740	1,740	2,140	2,130	2,140
17							1,760	1,740	1,750	2,160	2,130	2,150
18 19							1,780 1,850	1,740 1,780	1,760 1,820	2,160 2,200	2,130 2,160	2,150 2,180
20							1,880	1,760	1,850	2,180	2,160	2,170
21 22							1,970 1,970	1,770 1,890	1,900 1,920	2,210 2,240	2,160 2,210	2,170 2,240
23							1,920	1,890	1,900	2,230	2,190	2,200
24 25							1,980 2,040	1,920 1,920	1,960 1,970	2,230 2,240	2,210 2,190	2,210 2,220
26							2,120	2,040	2,090	2,200	2,160	2,180
27							2,120	2,090	2,110	2,290	2,160	2,230
28 29							2,090 2,070	2,060 2,060	2,070 2,070	2,320 2,300	2,290 2,260	2,300 2,280
30 31							2,090 2,130	2,070 2,090	2,070 2,110	2,280 2,270	2,260 2,240	2,270 2,260
MONTH							2,130	1,680	1,900	2,320	2,110	2,200
MOIVIII		FEBRUAR			MARCH		2,130	APRIL	1,500	2,320	MAY	2,200
1	2,310	2,240	2,280	1,450	1,350	1,400				1,410	1,400	1,400
2	2,320	2,270	2.310	1,530	1,450	1,490				1,410	1,400	1,400
3 4	2,270 2,290	2,250 2,270	2,260 2,280	1,570 1,620	1,520 1,560	1,540 1,570				1,430 1,450	1,410 1,430	1,420 1,440
5	2,300	2,270	2,280	1,680	1,620	1,640				1,450	1,420	1,430
6 7	2,300 2,250	2,250 2,200	2,280 2,220	1,690 1,720	1,630 1,660	1,650 1,700				1,440 1,440	1,420 1,420	1,420 1,430
8	2,200	2,150	2,190	1,720	1,720	1,720				1,420	1,370	1,400
9 10	2,150 2,090	2,020 2,020	2,070 2,050	1,770 1,780	1,720 1,730	1,750 1,760				1,400 1,320	1,250 1,250	1,340 1,280
11	2,110	2,030	2,070	1,820	1,780	1,810				1,390	1,280	1,330
12	2,070	1,820	2,020	1,820	1,450	1,730				1,350	1,280	1,320
13 14	2,090 2,110	1,830 2,060	2,030 2,090	1,490 1,440	1,210 1,250	1,350 1,350				1,400 1,430	1,350 1,400	1,370 1,420
15	2,100	2,040	2,070	1,510	1,440	1,480				1,470	1,430	1,450
16 17	2,050 1,960	1,950 1,880	2,020 1,920	1,490 1,580	1,340 1,490	1,410 1,540	1,300	1,280	1,290	1,510 1,520	1,470 1,510	1,500 1,520
18	1,910	1,820	1,870	1,490	1,330	1,430	1,310	1,290	1,300	1,520	1,510	1,510
19 20	1,820 1,630	1,010 1,510	1,620 1,560				1,340 1,370	1,310 1,340	1,320 1,360	1,510 1,500	1,500 1,490	1,500 1,500
21	1,510	1,300	1,430				1,420	1,360	1,380	1,500	1,490	1,490
22	1,330	1,250	1,310				1,440	1,410	1,430	1,500	1,490	1,490
23 24	1,250 997	941 942	1,090 978				1,450 1,460	1,410 1,450	1,430 1,460	1,510 1,520	1,490 1,510	1,500 1,510
25	1,170	978	1,020				1,470	1,460	1,470	1,520	1,510	1,520
26 27	1,200 1,180	1,070 1,130	1,150 1,150				1,460 1,440	1,440 1,420	1,450 1,430	1,520 1,530	1,510 1,510	1,510 1,520
28	1,350	1,180	1,290				1,440	1,430	1,440	1,520	1,510	1,520
29 30							1,440 1,420	1,420 1,410	1,430 1,420	1,520 1,540	1,500 1,520	1,520 1,530
31										1,560	1,540	1,540
MONTH	2,320	941	1,820	1,820	1,210	1,570	1,470	1,280	1,400	1,560	1,250	1,450

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		Sl	ЕРТЕМВЕ	ER
1	1,560	1,550	1,550	1,330	1,300	1,310	1,270	1,260	1,260	1,310	1,300	1,310
2	1,550	1,540	1,550	1,330	1,320	1,320	1,270	1,260	1,260	1,320	1,300	1,310
3	1,560	1,540	1,550	1,360	1,330	1,350	1,260	1,250	1,250	1,320	1,310	1,310
4	1,570	1,540	1,560	1,360	1,350	1,350	1,260	1,250	1,250	1,320	1,320	1,320
5	1,580	1,550	1,580	1,370	1,340	1,350	1,260	1,250	1,260	1,320	1,300	1,310
6	1,550	1,530	1,540	1,390	1,360	1,370	1,290	1,250	1,260	1,320	1,310	1,310
7	1,530	1,520	1,530	1,400	921	1,350	1,270	1,260	1,260	1,320	1,310	1,320
8	1,550	1,530	1,540	1,380	394	871	1,270	1,260	1,270	1,330	1,320	1,320
9	1,540	1,510	1,520	844	415	641	1,290	1,250	1,280	1,340	1,320	1,330
10	1,510	1,490	1,500	960	309	730	1,260	1,200	1,230	1,320	1,290	1,310
11	1,500	1,480	1,490	392	282	318	1,290	1,250	1,270	1,310	1,290	1,300
12	1,500	1,480	1,490	563	392	499	1,280	1,270	1,270	1,320	1,310	1,320
13	1,490	1,480	1,480	651	563	618	1,280	1,260	1,270	1,330	1,320	1,330
14	1,480	1,460	1,470	725	651	682	1,280	1,230	1,250	1,340	1,320	1,330
15	1,470	1,430	1,460	847	725	782	1,280	1,220	1,250	1,340	1,320	1,330
16	1,500	1,430	1,460	998	847	926	1,220	1,140	1,170	1,350	1,330	1,340
17	1,510	1,470	1,500	1,050	998	1,030	1,180	1,150	1,170	1,360	1,330	1,340
18	1,490	1,450	1,480	1,060	1,040	1,050	1,210	1,180	1,190	1,360	1,330	1,340
19	1,480	1,440	1,460	1,070	1,050	1,060	1,230	1,210	1,220	1,360	1,330	1,350
20	1,470	1,420	1,440	1,120	1,070	1,090	1,240	1,230	1,230	1,360	1,330	1,350
21	1,430	1,270	1,390	1,160	1,120	1,140	1,240	1,230	1,240	1,360	1,340	1,340
22	1,470	1,350	1,440	1,200	1,140	1,170	1,240	1,230	1,240	1,370	1,360	1,370
23	1,450	1,350	1,430	1,220	1,200	1,210	1,260	1,240	1,250	1,380	1,360	1,370
24	1,420	1,360	1,400	1,250	1,220	1,240	1,270	1,260	1,260	1,390	1,380	1,390
25	1,460	1,340	1,420	1,270	1,250	1,260	1,280	1,260	1,270	1,410	1,380	1,400
26 27 28 29 30 31	1,450 1,360 1,720 1,570 1,310	1,360 1,210 1,210 1,300 1,290	1,420 1,280 1,540 1,380 1,300	1,280 1,280 1,280 1,280 1,280 1,280	1,270 1,270 1,280 1,270 1,270 1,260	1,280 1,280 1,280 1,280 1,280 1,270	1,350 1,300 1,310 1,300 1,300 1,320	1,280 1,290 1,300 1,260 1,250 1,300	1,290 1,300 1,300 1,290 1,270 1,310	1,410 1,410 1,420 1,400 1,400	1,390 1,390 1,390 1,390 1,390	1,390 1,410 1,400 1,390 1,400
MONTH	1,720	1,210	1,470	1,400	282	1,080	1,350	1,140	1,250	1,420	1,290	1,340
YEAR	2,320	282	1,540									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	DBER	NOVE	MBER	DECE	MBER	JANU	ARY	FEBR	RUARY	MAI	RCH
1 2							8.0 8.0	8.0 8.0			8.1 8.1	8.0 8.0
3 4							8.0	8.0			8.1	8.0
5							8.0 7.9	7.9 7.9			8.1 8.2	8.0 7.9
6							7.9	7.9			8.0	7.9
7 8							7.9 8.0	7.9 7.9			8.0 7.9	7.9 7.8
9							8.0	7.9			7.9	7.8
10							8.0	8.0			7.9	7.8
11 12					8.1	8.1	8.0 8.0	8.0 8.0			7.9 8.0	7.8 7.8
13					8.1	8.1	8.0	8.0	8.1	8.0	8.2	7.9
14 15					8.1 8.2	8.1 8.1	8.0	8.0	8.2 8.3	8.1 8.2	8.2 8.0	7.9 7.8
16					8.2	8.1			8.3	8.1	8.3	7.8
17 18					8.2 8.2	8.1 8.1			8.3 8.3	8.1 8.0	8.2 8.2	8.1 8.1
19					8.2	8.2			8.2	8.0		
20					8.2	8.2			8.3	8.0		
21 22					8.3 8.3	8.2 8.2			8.3 8.2	8.1 8.1		
23 24					8.3 8.2	8.2 8.2			8.1 8.2	8.1 8.1		
25					8.2	8.1			8.2	8.1		
26					8.2	8.1			8.2	8.0		
27 28					8.1 8.1	8.1 8.0			8.1 8.1	8.0 8.0		
29					8.0	8.0						
30 31					8.0 8.0	8.0 8.0						
MONTH					8.3	8.0	8.0	7.9	8.3	8.0	8.3	7.8
	API	RIL	MA	ΑY	JU	NE	JUI	LY.	AUG	GUST	SEPTE	MBER
1	API	RIL 	8.6	8.5	8.6	8.4	8.5	8.2	8.1	7.8	8.3	8.2
2			8.6 8.6	8.5 8.5	8.6 8.5	8.4 8.4	8.5 8.3	8.2 8.1	8.1 8.1	7.8 7.9	8.3 8.4	8.2 8.2 8.2
2 3 4	 	 	8.6 8.6 8.6 8.5	8.5 8.5 8.5 8.4	8.6 8.5 8.4 8.4	8.4 8.4 8.4 8.3	8.5 8.3 8.1 8.3	8.2 8.1 7.8 8.0	8.1 8.1 8.1 8.2	7.8 7.9 8.0 7.9	8.3 8.4 8.4 8.5	8.2 8.2 8.2 8.2
2 3 4 5	 	 	8.6 8.6 8.5 8.5	8.5 8.5 8.5 8.4 8.4	8.6 8.5 8.4 8.4	8.4 8.4 8.4 8.3 8.3	8.5 8.3 8.1 8.3 8.3	8.2 8.1 7.8 8.0 8.2	8.1 8.1 8.1 8.2 8.3	7.8 7.9 8.0 7.9 8.0	8.3 8.4 8.4 8.5 8.5	8.2 8.2 8.2 8.2 8.3
2 3 4 5 6 7	 	 	8.6 8.6 8.6 8.5	8.5 8.5 8.5 8.4	8.6 8.5 8.4 8.4	8.4 8.4 8.4 8.3 8.3 8.3	8.5 8.3 8.1 8.3	8.2 8.1 7.8 8.0	8.1 8.1 8.1 8.2	7.8 7.9 8.0 7.9	8.3 8.4 8.4 8.5	8.2 8.2 8.2 8.2 8.3 8.3
2 3 4 5 6 7 8	 	 	8.6 8.6 8.5 8.5 8.4 8.4 8.4	8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.2	8.6 8.5 8.4 8.4 8.4 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3	8.5 8.3 8.1 8.3 8.3 8.3 8.2	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6	8.1 8.1 8.2 8.3 8.2 8.2 8.3	7.8 7.9 8.0 7.9 8.0 8.0 8.1 8.1	8.3 8.4 8.4 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.2 8.3 8.3 8.3
2 3 4 5 6 7	 	 	8.6 8.6 8.5 8.5 8.4 8.4	8.5 8.5 8.5 8.4 8.4 8.4	8.6 8.5 8.4 8.4 8.4 8.5	8.4 8.4 8.4 8.3 8.3 8.3	8.5 8.3 8.1 8.3 8.3 8.3	8.2 8.1 7.8 8.0 8.2 8.2 8.0	8.1 8.1 8.2 8.3 8.2 8.2	7.8 7.9 8.0 7.9 8.0 8.0	8.3 8.4 8.4 8.5 8.5 8.5	8.2 8.2 8.2 8.2 8.3 8.3
2 3 4 5 6 7 8 9 10			8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2	8.5 8.5 8.4 8.4 8.4 8.4 8.2 8.1 8.1	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.4	8.5 8.3 8.1 8.3 8.3 8.2 8.1 7.6 7.6	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.2 8.1	8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.4	8.2 8.2 8.2 8.3 8.3 8.3 8.4 8.3 8.3 8.3
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.6 8.6 8.6	8.5 8.5 8.4 8.4 8.4 8.2 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.5 8.5 8.5 8.5	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.5 8.3 8.1 8.3 8.3 8.2 8.1 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.8 7.8 7.8 7.7 7.7 7.8 7.7 7.8 7.8 7.8	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5 7.4 7.2 7.3 7.3 7.4 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.2 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.1 8.2 8.2 8.2 8.3 8.3	8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.6 8.6 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.5 8.5 8.5 8.5 8.6 8.6 8.6	8.5 8.5 8.4 8.4 8.4 8.2 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.4 8.5 8.4 8.5 8.6 8.5 8.3 8.3 8.3 8.4 8.5 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.5 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.8 7.8 7.8 7.7 7.7 7.8 7.7 7.8 7.7 7.8 7.8	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5 7.4 7.2 7.3 7.3 7.4 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.2 8.1 8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.1 8.1 8.2 8.2 8.1 8.1	8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.5	8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5	8.6 8.6 8.5 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.5 8.5 8.4 8.4 8.4 8.2 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.5 8.6 8.5 8.6 8.5 8.4 8.2 8.3 8.3 8.4 8.5 8.6 8.5 8.6 8.7 8.8 8.8 8.8 8.8 8.8 8.8 8.8	8.5 8.3 8.1 8.3 8.3 8.2 8.1 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.8 7.8 7.8 7.7 7.7 7.8 7.8 7.8 7.8 7.8	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.5 7.5 7.4 7.2 7.3 7.3 7.4 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.1 8.1 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.2 8.1 8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.1 8.1 8.1 8.2 8.2 8.1 8.1 8.1	8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.6 8.5 8.5	 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.6 8.6 8.5 8.5 8.4 8.4 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.5 8.5 8.5 8.5 8.6 8.6 8.6	8.5 8.5 8.4 8.4 8.4 8.2 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.5	8.6 8.5 8.4 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.2 8.3 8.4 8.5 8.6 8.6 8.5 8.4 8.5 8.4 8.5 8.6 8.5 8.3 8.3 8.3 8.4 8.5 8.6 8.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.5 8.3 8.3 8.3 8.2 8.1 7.6 7.6 7.5 7.4 7.3 7.4 7.6 7.8 7.8 7.8 7.7 7.7 7.8 7.7 7.8 7.7 7.8 7.8	8.2 8.1 7.8 8.0 8.2 8.2 8.0 7.6 7.5 7.5 7.4 7.2 7.3 7.3 7.4 7.5 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.1 8.1 8.2 8.3 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.8 7.9 8.0 7.9 8.0 8.1 8.1 8.1 8.2 8.1 8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.1 8.1 8.2 8.2 8.1 8.1	8.3 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.6 8.5 8.5 8.5 8.5 8.5 8.4 8.4 8.5 8.5 8.5 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN									
		OCTOBER			NOVEMBE	ER	I	DECEMBE	R		JANUARY	
1 2												
3												
4												
5												
6 7												
8												
9												
10												
11 12												
13												
14												
15												
16 17												
18												
19												
20												
21 22												
23												
24												
25												
26												
27 28												
29												
30 31												
MONTH												
MONTH		FEBRUAR			MARCH			APRIL			MAY	
				20.0						12.5		10.5
1 2				20.9 22.4	17.2 17.4	18.5 19.2				13.5 14.5	11.3 11.6	12.5 12.9
3				23.4	18.1	20.5				13.0	10.8	12.1
4 5				23.7 23.5	19.0 17.4	21.2 20.1				12.4 12.2	10.0 10.3	11.0 11.2
6 7				18.8 18.1	16.5 15.2	17.6 16.6				12.3 11.4	10.2 10.1	11.1 10.8
8				15.6	13.7	14.7				11.6	10.8	11.2
9 10				14.5 14.4	13.5 12.1	13.9 13.1				11.9 11.6	11.4 10.9	11.7 11.5
11 12				17.3 21.1	13.9 15.6	14.8 17.7				10.9 10.8	10.2 10.4	10.4 10.6
13	19.2	16.4	17.6	21.0	15.0	17.9				10.8	10.2	10.6
14 15	24.0 24.9	18.2 18.6	19.9 22.1	20.3 17.2	14.2 12.7	16.3 14.3				10.4 9.8	9.8 9.1	10.0 9.4
16	25.5	17.3	21.0	16.5	12.5	14.7				10.3	8.9	9.7
17	25.3	17.3	21.5	15.5	13.8	14.7	12.3	8.2	10.1	10.6	9.6	10.2
18	24.5	16.6	20.4	14.7	12.8	13.7	10.9	9.0	10.0	11.2	9.9	10.5
19 20	21.4 20.2	16.3 15.8	18.1 17.6				14.0 14.9	10.0 11.8	11.9 13.2	11.3 11.2	10.0 9.8	10.7 10.5
21	19.5	17.0	17.9				13.7	11.5	12.6	10.8	9.4	10.1
22	17.8	16.2	17.1				14.0	11.8	12.8	10.2	9.0	9.6
23 24	16.6	15.9	16.3				13.6	11.6	12.5	10.8	8.6	9.8
24 25	17.3 18.3	15.6 16.6	16.3 17.2				12.4 14.8	9.9 11.4	11.1 13.0	12.8 11.7	10.4 10.2	11.5 10.9
26	17.6	16.0	16.8				15.5	12.4	13.9	11.7	8.6	10.1
27	18.6	15.9	16.9				13.8	12.3	13.0	12.8	8.3	10.4
28 29	19.7	16.6	17.8				15.6 15.2	12.6 13.0	13.9 13.9	11.6 10.6	7.8 7.2	10 9.1
30							14.9	11.8	13.9	10.1	6.6	8.5
31										11.0	6.4	8.6
MONTH	25.5	15.6	18.4	23.7	12.1	16.6	15.6	8.2	12.5	14.5	6.4	10.6

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	•	Sl	ЕРТЕМВЕ	ER
1 2 3 4 5	11.6 9.5 10.4 11.9 11.7	6.8 6.9 8.1 8.8 8.5	9.1 8.3 9.1 10.2	10.8 9.1 8.1 11.8 10.0	5.6 5.4 4.1 6.2 6.7	7.9 6.6 5.2 9.0 8.3	9.3 10.5 9.1 10.8 11.5	6.2 7.1 7.1 7.2 7.2	7.4 8.4 8.0 8.6 9.3	9.9 10.9 12.1 11.4 12.2	7.2 7.0 7.6 7.8 7.7	8.4 8.8 9.5 9.8 9.6
6 7 8 9 10	10.9 11.4 10.6 9.8 8.7	8.0 7.2 7.6 7.5 6.7	9.3 9.0 9.1 8.5 7.7	6.7 5.3 5.5 4.6 4.8	4.2 2.5 4.1 3.9 4.3	5.4 3.8 4.8 4.3 4.5	9.8 9.7 10.0 10.8 10.6	7.2 7.2 6.8 6.6 6.8	8.2 8.4 8.3 8.5 8.6	11.4 10.0 9.1 8.4 8.6	7.8 6.9 6.4 6.4 7.4	9.1 8.6 7.6 7.3 7.9
11 12 13 14 15	11.9 11.4 11.6 15.2 15.5	6.3 7.1 7.9 10.6 10.6	8.8 8.9 9.5 12.4 13.4	4.9 4.8 4.8 5.2 6.1	4.4 4.2 4.4 4.4 4.6	4.6 4.5 4.6 4.7 5.3	11.4 10.9 11.4 10.0 10.9	7.0 6.8 7.7 7.8 7.9	9.0 8.9 9.5 8.9 9.3	8.6 8.6 8.2 8.6 9.9	7.1 7.9 7.3 7.4 8.2	7.9 8.2 7.7 8.1 8.9
16 17 18 19 20	14.5 12.1 10.8 8.4 10.8	11.8 9.5 7.8 6.2 6.3	12.8 10.7 8.9 7.5 8.2	6.6 7.4 7.4 7.5 7.3	4.8 5.2 5.3 5.4 5.5	5.6 6.1 6.2 6.3 6.3	11.0 11.9 13.2 13.8 11.9	8.2 8.6 9.2 8.7 8.4	9.6 10.1 11.0 11.1 9.9	10.6 10.6 9.3 8.8 8.8	8.2 8.0 7.5 7.0 7.2	9.2 9.1 8.4 7.8 7.9
21 22 23 24 25	9.8 9.2 8.0 7.9 7.4	6.7 5.5 5.2 5.0 4.8	7.8 7.2 6.8 6.0 6.0	6.5 7.2 7.3 7.2 7.4	5.6 5.6 6.4 6.5 6.6	6.0 6.3 6.7 6.9 7.0	10.2 10.7 12.2 12.7 12.2	7.5 7.3 7.2 7.1 6.8	8.7 8.9 9.3 9.8 9.7	9.0 9.3 9.6 10.3 9.5	7.7 8.3 9.1 9.2 7.7	8.3 8.9 9.4 9.6 8.9
26 27 28 29 30 31	9.1 12.7 13.7 10.0 9.6	5.2 6.0 6.5 5.1 5.3	6.9 9.1 9.8 7.4 7.2	7.3 7.0 6.7 7.3 7.4 8.0	6.4 6.3 6.1 6.3 6.2 6.2	6.8 6.6 6.4 6.7 6.7	11.7 11.1 9.9 9.8 9.4 10.6	6.7 6.5 6.7 6.4 6.5 7.4	9.5 8.9 8.2 8.2 7.7 8.8	9.1 8.9 8.4 7.8 6.5	7.4 7.9 6.7 5.6 5.6	8.2 8.4 7.7 6.5 6.1
MONTH	15.5	4.8	8.9	11.8	2.5	6.0	13.8	6.2	9.0	12.2	5.6	8.4
YEAR	25.5	2.5	10.3									

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBE	R	D	ECEMBE	R		JANUARY	
1										13	9.5	18
2 3										12 12	9.3 9.0	18 17
4										11	8.7	17
5										11	8.6	18
6										11	8.8	17
7 8										11 11	8.7 8.4	18 17
9										11	8.8	18
10										10	8.3	18
11										11	8.3	19
12 13							18 16	12 10	14 14	11 12	8.4 8.1	19 19
14							16	11	14	11	8.0	19
15							16	10	14	20	7.3	19
16							14	11 10	14	17	14	15
17 18							15 16	10	14 16	17 17	13 12	14 13
19							14	10	15	15	12	13
20							14	11	15	15	13	12
21 22							17 17	13 11	19 18	16 14	12 11	12 11
23							14	9.8	16	14	10	11
24							22	9.4	17	14	10	10
25							16	11	19	24	11	11
26 27							15 13	11 9.5	19 16	31 25	12 12	12 12
28							12	9.4	16	21	11	11
29 30							16	9.5	17 17	23	11	11
31							12 12	9.1 9.8	17	23 24	12 14	12 12
MONTH							22	9.1	16	31	7.3	15
		FEBRUAR	Y		MARCH			APRIL			MAY	
1	40	12	13	7.4	5.8	6.7				67	39	49
2	40	12	12	7.2	5.7	6.3				66	35	50
3 4	35 42	12 13	14 13	7.1 7.3	5.2 5.3	6.1 6.1				77 100	41 54	54 73
5	34	12	12	6.6	4.9	5.6				87	49	66
6	34	13	13	6.6	4.8	5.6				61	45	53
7	70	12	17	6.4	4.7	5.4				62	40	53
8 9	28 20	13 12	10 8.3	5.7 6.2	4.7 4.6	5.1 5.0				73 230	32 43	40 120
10	19	12	7.9	7.9	4.7	5.5				200	110	150
11	19	11	7.3	8.2	4.5	5.7				150	93	120
12	18	6.6	7.3	17	7.1	11				120	75	97
13 14	8.5 12	5.8 5.7	6.9 7.2	17 12	9.2 7.4	12 8.8				120	67 	93
15	11	5.8	7.7	9.9	7.1	7.9						
16	15	5.7	8.9	17	9.2	12						
17 18	14 17	5.7 5.7	8.5 9.0	11	7.2 7.2	8.4	160	67 98	100 120			
19	84	6.7	20	8.6		7.6	170 120	48	73			
20	12	7.6	9.5				61	37	47			
21	13	8.1	11				52	35	43			
22 23	12 22	9.5 11	11 15				46 66	36 37	40 47			
24	20	10	14				80	57	69			
25	11	8.3	9.6				59	38	48			
26 27	11	7.7 7.2	9.4				45	31	38			
21		17	8.5				42 34	30	37 31			
28	10 7.7	6.2	7.2				34	26	31			
28 29	7.7 	6.2					58	29	37			
28	7.7	6.2										
28 29 30	7.7 	6.2 					58 55	29 39	37 46			

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	Γ	S	ЕРТЕМВІ	ER
1 2 3 4 5	 100	 64	 79	64 58 45 66 61	37 35 32 28 30	52 43 40 39 39	100 88 78 77 72	56 49 52 48 45	78 68 63 67 60	100 110 110 110 110	78 82 82 83 78	83 86 85 88 86
6 7 8 9 10	100 91 110 84 84	62 51 57 52 49	77 72 79 69 62	52 64 1,100 290 430	26 28 36 120 150	32 40 400 170 260	74 69 72 74 77	51 48 43 41 50	62 60 57 54 62	110 110 93 110 91	77 77 71 79 60	86 83 74 81 75
11 12 13 14 15	67 90 85 34 28	36 36 24 25 22	47 54 51 27 25	350 110 76 81 80	110 69 64 56 51	190 78 67 67 63	79 75 94 94 90	52 52 57 67 55	64 62 73 78 68	91 98 86 83 75	68 68 60 63 51	78 82 76 71 60
16 17 18 19 20	34 47 35 51 63	24 24 26 32 29	30 32 30 40 47	85 90 83 84 91	57 55 55 59 55	71 70 65 68 67	85 81 83 78 90	63 61 56 50 51	72 71 69 63 62	63 62 61 62 58	43 53 45 41 37	54 57 54 52 47
21 22 23 24 25	130 79 110 130 99	29 37 37 45 44	65 63 69 78 72	100 92 79 79 90	58 58 55 53 55	64 68 65 65 73	77 86 77 76 81	49 49 54 52 53	64 65 64 61 63	55 49 53 39 53	36 32 30 30	46 40 37 32 42
26 27 28 29 30 31	79 54 60 62 75	41 40 38 41 46	57 47 48 56 62	120 91 170 170 120 110	59 59 75 71 69 67	75 78 100 98 92 84	81 85 96 88 120 110	49 60 66 69 74 73	64 68 74 75 83 81	61 60 69 74 81	31 34 37 45 50	42 44 50 58 64
MONTH	130	22	55	1,100	26	90	120	41	67	110	30	64
YEAR	1,100	4.5	46									

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
08	1145	29	15	10.5	8.2	1,420	11.6	8.7	1.2	< 0.050	< 0.050	< 0.050	< 0.010
NOV													
05 DEC	1145	27	17	13.8	8.0	1,650	3.0	-0.1	1.4	< 0.050	< 0.050	0.060	< 0.010
10	1425	8.9	6.0	20.6	8.0	2,030	13.3	0.0	1.4			0.140	< 0.010
JAN 2003	1723	0.7	0.0	20.0	0.0	2,030	13.3	0.0	1.7			0.140	<0.010
14	1450	E2.7	14	18.2	7.5	2,310	-15.0	0.0	1.6	0.080	0.090	0.230	< 0.010
APR													
16	1030	33	120	9.7	8.2	1,470	1.0	8.8	1.8	< 0.050	< 0.050	< 0.050	< 0.010
MAY 20	1400	56	94	10.7	8.1	1,770	14.9	14.1	1.8	< 0.050	< 0.050	0.310	0.010
JUN	1400	30	94	10.7	0.1	1,770	14.9	14.1	1.0	<0.030	<0.030	0.510	0.010
04	1045	46	100	9.3	8.4	1,680	20.3	17.6	1.7	< 0.050	< 0.050	0.060	< 0.010
18	1030	41	100	3.8	7.9	1,670	25.5	25.1	2.4	0.070	0.070	< 0.050	< 0.010
JUL													
10	1040	363	120	6.7	7.6	1,210	18.5	21.6	2.2	< 0.050	< 0.050	0.050	< 0.010
22	1030	356	100	7.0	7.9	1,320	22.2	23.3	2.0	< 0.050	< 0.050	0.200	0.020
AUG 06	0915	76	60	6.2	8.1	1,480	23.5	24.0	1.8	< 0.050	< 0.050	0.100	< 0.010
20	0913	43	63	6.3 5.7	8.1	1,480	25.5 26.9	26.1	1.6	< 0.050	<0.050	< 0.100	<0.010
SEP	0920	43	03	5.1	0.1	1,500	20.9	20.1	1./	\0.030	\0.030	\U.U.JU	\0.010
04	1015	31	60	6.8	8.0	1,540	17.8	17.9	1.8	< 0.050	< 0.050	< 0.050	< 0.010
						-,							

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
08	0.005	0.167	80k	160	60k	20.2	98	46
NOV								
05	0.010	0.096	3k	10k	29k	21.6	95	12
DEC	-0.005	0.047				140	100	4
10 JAN 2003	< 0.005	0.047				14.8	100	4
14	< 0.005	0.048				10.6	59	124
APR	10.005	0.010				10.0	37	121
16	0.012	0.251	E67k	E35k	223	54.2	78	16
MAY								
20	0.031	0.171	<10	E80k	E20k	37.9	100	107
JUN								
04	0.026	0.181	E73k	E250k	294	23.6	96	106
18	0.033	0.253	400	230	220	41.4	90	92
JUL								
10	0.416	0.639	E180k	170	513	50.2	99	84
22	0.364	0.545		170	366	18.9	98	103
AUG	0.171	0.202	1201	210	1.601	24.7	00	00
06	0.171	0.303	120k	210	168k	24.7	99	92
20	0.100	0.225	140	140	234	8.44	94	60
SEP	0.044	0.162				0.55	02	27
04	0.044	0.162				8.55	93	37

Remark codes used in this table: < -- Less than E -- Estimated value

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBE	R		ECEMBE			JANUARY	
1 2 3 4 5	16.3 14.6 12.3 11.2 10.4	14.6 12.3 11.2 9.9 9.6	15.5 13.0 11.5 10.6 10.0	1.3 0.7 0.4 0.5 0.3	0.3 0.0 0.0 0.1 0.1	0.7 0.3 0.2 0.3 0.2	0.5 0.4 0.3 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.2 0.2 0.2 0.1 0.1	0.2 0.2 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.2 0.1
6 7 8 9 10	10.2 9.5 9.8 9.0 12.2	8.7 7.5 8.7 7.0 8.9	9.4 8.5 9.2 8.3 10.2	1.0 3.3 3.2 3.5 3.4	0.1 0.2 2.5 2.9 0.2	0.5 1.5 2.9 3.2 1.9	0.2 0.3 0.3 0.4 0.4	0.0 0.0 0.0 0.1 0.1	0.1 0.2 0.2 0.2 0.2	0.2 0.3 0.3 0.3 0.3	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.2 0.2 0.1
11 12 13 14 15	13.3 12.9 9.1 8.8 8.5	12.0 9.1 6.8 6.8 7.4	12.6 10.9 7.8 7.8 7.9	0.9 0.6 0.6 0.6 0.8	0.1 0.1 0.1 0.0 0.1	0.5 0.4 0.3 0.3 0.4	0.3 0.3 0.3 0.3 0.4	0.1 0.0 0.0 0.1 0.1	0.2 0.2 0.2 0.2 0.2	0.2 0.2 0.2	0.1 0.1 0.0	0.1 0.1 0.2
16 17 18 19 20	7.6 5.8 5.6 4.6 4.1	5.6 4.9 4.6 3.7 3.4	6.5 5.4 5.2 4.0 3.8	0.6 0.6 0.7 0.7 1.6	0.1 0.1 0.1 0.1 0.1	0.3 0.3 0.3 0.4 0.7	0.3 0.2 0.2 0.2 0.1	0.1 0.1 0.1 0.1 0.1	0.2 0.1 0.1 0.1 0.1	 	 	
21 22 23 24 25	4.0 4.3 3.8 3.5 4.0	2.1 3.5 2.6 2.1 3.2	3.1 3.9 3.1 2.7 3.6	2.0 1.9 1.9 0.5 0.4	1.4 1.1 0.2 0.0 0.1	1.7 1.5 1.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	 	 	
26 27 28 29 30 31	4.2 4.3 4.4 4.4 3.1 1.4	3.3 3.8 3.1 0.5 0.3	3.8 3.9 4.1 4.0 1.4 0.8	0.4 0.5 0.5 0.4 0.4	0.1 0.0 0.1 0.1 0.0	0.2 0.2 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.2 0.1	0.1 0.1 0.1 0.1 0.1 0.0	0.1 0.1 0.1 0.1 0.1 0.1	 	 	
MONTH	16.2	0.3	6.9	3.5	0.0	0.7	0.5	0.0	0.1	0.2	0.0	0.1
MONTH	16.3	0.5	0.9	3.3	0.0	0.7	0.3	0.0	0.1	0.3	0.0	0.1
MONTH		U.S FEBRUARY			MARCH	0.7	0.3	APRIL	0.1	0.3	MAY	0.1
1 2 3 4 5						 	 		0.1 	16.2 17.3 16.3 15.6 11.5		14.1 14.5 14.8 13.4 10.3
1 2 3 4	 	FEBRUARY 	 	 	MARCH	 	 	APRIL 	 	16.2 17.3 16.3 15.6	MAY 11.9 11.9 12.6 11.5	14.1 14.5 14.8 13.4
1 2 3 4 5 6 7 8 9	 	FEBRUARY			MARCH		 	APRIL		16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6	MAY 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH			APRIL		16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.9	MAY 11.9 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8 11.1 9.5 12.0 13.7 13.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		 7.8 7.8 6.1	APRIL	 5.4 6.6 5.6	16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.9 14.0 17.8	MAY 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6 12.0 15.6 16.7 16.4 14.6	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8 11.1 9.5 12.0 13.7 13.2 14.6 17.2 17.5 16.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		7.8 7.8 6.1 6.3 10.0 12.8 14.5 15.5 16.0 16.2 17.4 16.1 14.9	APRIL	 5.4 6.6 5.7 7.4 10.3 12.0 13.7 14.1 14.9 15.6 14.4 13.3 12.6	16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.0 17.8 19.1 18.7 18.5 18.4 16.7 17.5 20.7 19.8 18.1 20.7 21.7 20.8 22.6 21.8 21.3	MAY 11.9 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6 12.0 15.6 16.7 16.4 14.6 11.7 14.0 16.0 16.9 16.3 14.6 16.8 17.6 18.1 18.3 16.6	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8 11.1 9.5 12.0 13.7 13.2 14.6 17.5 16.5 14.0 15.7 17.9 18.1 16.8 17.3 19.5 20.3 20.2 18.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY			MARCH			APRIL 3.6 5.6 5.2 5.2 5.4 8.3 9.9 12.0 12.4 13.3 14.2 12.5 12.5	 5.4 6.6 5.6 5.7 7.4 10.3 12.0 13.7 14.1 14.9 15.6 14.4 13.3	16.2 17.3 16.3 15.6 11.5 11.9 16.9 16.5 14.6 12.3 10.9 15.4 14.9 14.0 17.8 19.1 18.7 18.5 18.4 16.7 17.5 20.7 19.8 18.1 20.7	MAY 11.9 11.9 11.9 12.6 11.5 9.9 9.7 10.0 13.8 12.2 10.2 8.2 9.5 12.9 12.6 12.0 15.6 16.7 16.4 14.6 11.7 14.0 16.0 16.9 16.3 14.6 16.8 17.6 18.1 18.3	14.1 14.5 14.8 13.4 10.3 10.6 13.0 15.0 12.8 11.1 9.5 12.0 13.7 13.2 14.6 17.2 17.5 16.5 14.0 15.7 17.9 18.1 16.8 17.3 19.2 19.5 20.3 20.2

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	ЕРТЕМВІ	ER
1 2 3 4 5	20.8 20.8 19.4 19.7 21.1	17.5 18.3 16.1 17.3 18.9	19.1 19.2 17.7 18.5 19.9	24.8 26.4 27.8 27.4 27.3	22.6 23.9 25.3 24.6 24.9	23.6 25.0 26.4 25.9 26.1	26.2 26.0 26.4 26.6 26.3	23.4 22.8 22.8 23.2 23.9	24.8 24.4 24.5 25.0 25.1	22.5 22.1 21.7 22.0 22.2	20.0 19.6 18.9 17.8 18.3	21.0 20.8 20.3 19.6 20.1
6 7 8 9 10	20.7 19.3 19.8 20.8 20.4	18.9 17.6 16.3 17.2 18.5	19.5 18.2 17.7 19.0 19.3	27.9 27.4 26.4 25.8 23.4	25.9 25.4 24.8 23.4 21.7	26.9 26.3 25.7 24.3 22.2	27.2 28.2 27.7 26.8 26.1	23.8 24.0 24.6 23.8 22.0	25.4 26.2 26.3 24.9 23.7	23.3 24.2 23.2 21.9 20.4	19.5 20.7 21.0 19.7 19.2	21.3 22.4 22.2 20.5 19.8
11 12 13 14 15	22.5 24.1 25.7 26.6 26.6	17.8 18.8 21.5 22.7 24.0	20.0 21.3 23.4 24.4 25.4	22.7 23.7 25.2 26.2 26.1	20.7 20.8 22.3 23.7 23.7	21.7 22.1 23.6 24.8 24.9	28.1 27.6 26.8 27.1 28.3	23.4 23.9 23.2 23.6 24.2	25.8 26.0 25.2 25.4 26.1	20.1 19.5 19.7 19.2 19.1	18.3 16.7 17.7 16.9 15.7	18.9 18.2 18.8 17.9 17.4
16 17 18 19 20	27.0 28.0 27.2 25.4 24.8	24.3 24.8 25.0 22.3 22.2	25.7 26.2 25.9 23.8 23.6	27.0 26.7 26.4 28.2 28.2	23.7 25.2 23.4 24.4 25.5	25.2 25.9 24.9 26.1 26.9	29.2 29.3 29.8 29.6 27.9	25.7 25.7 26.8 26.5 25.9	27.4 27.6 28.2 27.8 26.9	19.8 	16.1 	17.9
21 22 23 24 25	23.8 22.6 22.6 22.8 23.1	20.8 20.5 20.7 20.9 20.3	21.8 21.6 21.4 21.6 22.2	27.3 25.0 25.8 25.7 25.2	24.4 22.6 22.2 22.5 23.1	25.3 23.9 24.0 24.2 24.1	27.1 25.3 25.6 26.7 27.3	24.4 22.5 22.5 24.9 23.8	25.5 24.1 24.1 25.6 25.3	 	 	
26 27 28 29 30 31	20.3 19.6 21.2 22.2 23.5	18.4 18.5 19.3 20.2 21.3	18.9 19.0 20.1 21.1 22.3	26.4 25.8 27.0 26.7 26.5 27.1	24.0 23.4 22.6 24.1 23.5 23.8	25.1 24.5 24.6 25.5 25.1 25.3	28.5 26.4 25.0 24.0 22.6 22.3	25.1 23.4 22.4 20.5 18.6 19.0	26.5 24.4 23.5 22.1 20.4 20.5	 	 	
MONTH	28.0	16.1	21.3	28.2	20.7	24.8	29.8	18.6	25.1	24.2	15.7	19.8
YEAR	29.8	0.0	13.1									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBE	R	Г	ECEMBE	R		JANUARY	
1 2 3 4 5	1,400 1,410 1,400 1,380 1,360	1,380 1,400 1,370 1,200 1,320	1,380 1,400 1,390 1,330 1,350	1,650 1,690 1,630 1,630 1,630	1,610 1,460 1,460 1,550 1,550	1,640 1,600 1,540 1,580 1,570	1,910 2,030 2,080 2,050 2,140	1,880 1,880 2,030 2,030 2,040	1,900 1,940 2,060 2,030 2,090	2,170 2,230 2,300 2,240 2,260	2,130 2,170 2,210 2,180 2,210	2,150 2,190 2,250 2,200 2,240
6 7 8 9 10	1,330 1,330 1,410 1,440 1,440	1,230 1,270 1,310 1,410 1,390	1,310 1,300 1,360 1,430 1,440	1,600 1,580 1,590 1,600 1,600	1,570 1,570 1,560 1,580 1,590	1,580 1,580 1,580 1,600 1,590	2,140 2,110 2,090 2,090 2,060	2,110 2,040 2,080 2,060 2,000	2,130 2,060 2,090 2,080 2,020	2,250 2,210 2,170 2,070 2,120	2,210 2,170 2,070 2,040 2,040	2,220 2,190 2,130 2,050 2,080
11 12 13 14 15	1,460 1,450 1,460 1,460 1,470	1,410 1,430 1,420 1,430 1,450	1,440 1,440 1,440 1,440 1,460	1,610 1,610 1,630 1,640 1,660	1,570 1,570 1,610 1,600 1,630	1,590 1,590 1,620 1,620 1,650	2,000 2,000 1,980 1,970 1,960	1,980 1,970 1,940 1,940 1,940	2,000 1,980 1,960 1,960 1,940	2,230 2,300 2,420 	2,120 2,230 2,300 	2,170 2,270 2,360
16 17 18 19 20	1,490 1,490 1,470 1,530 1,530	1,470 1,460 1,450 1,460 1,500	1,480 1,480 1,460 1,510 1,520	1,700 1,720 1,700 1,660 1,660	1,660 1,660 1,650 1,630 1,630	1,680 1,690 1,680 1,640 1,640	1,950 1,960 1,980 2,000 2,020	1,920 1,940 1,950 1,970 1,980	1,930 1,950 1,960 1,990 2,010	 	 	
21 22 23 24 25	1,530 1,540 1,550 1,560 1,570	1,510 1,530 1,480 1,500 1,560	1,520 1,540 1,510 1,530 1,560	1,680 1,750 1,770 1,820 1,910	1,640 1,670 1,750 1,770 1,820	1,670 1,710 1,770 1,790 1,850	2,000 1,980 2,060 2,140 2,270	1,980 1,980 1,980 2,060 2,140	1,990 1,980 2,030 2,110 2,220	 	 	
26 27 28 29 30 31	1,580 1,590 1,580 1,570 1,600 1,620	1,570 1,570 1,560 1,560 1,570 1,600	1,580 1,580 1,570 1,570 1,580 1,610	1,980 1,980 1,940 1,890 1,890	1,790 1,920 1,890 1,850 1,850	1,910 1,950 1,930 1,860 1,870	2,320 2,370 2,400 2,370 2,300 2,170	2,270 2,310 2,360 2,300 2,170 2,130	2,300 2,350 2,380 2,350 2,230 2,140	 	 	
MONTH	1,620	1,200	1,470	1,980	1,460	1,690	2,400	1,880	2,070	2,420	2,040	2,190
MONTH		1,200 FEBRUARY		1,980	1,460 MARCH	1,690	2,400	1,880 APRIL	2,070	2,420	2,040 MAY	2,190
MONTH 1 2 3 4 5				1,980 		1,690	2,400	1	2,070 	2,420 1,720 1,700 1,690 1,700 1,690		1,710 1,690 1,680 1,690 1,670
1 2 3 4	 	FEBRUARY	 	 	MARCH	 	 	APRIL	 	1,720 1,700 1,690 1,700	MAY 1,700 1,680 1,670 1,680	1,710 1,690 1,680 1,690
1 2 3 4 5 6 7 8 9		FEBRUARY			MARCH			APRIL		1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,720 1,710 1,690	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700 1,650
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH			APRIL		1,720 1,700 1,690 1,700 1,690 1,720 1,720 1,710 1,690 1,740 1,760 1,770 1,770	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,730 1,720	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,730
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		 1,420 1,440 1,510	APRIL	 1,390 1,400 1,470	1,720 1,700 1,690 1,700 1,690 1,720 1,710 1,690 1,740 1,770 1,770 1,770 1,850 1,880 1,880 1,880 1,860	MAY 1,700 1,680 1,670 1,680 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,730 1,720 1,770 1,850 1,870 1,860 1,840	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,880 1,850
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY			MARCH		 1,420 1,440 1,510 1,500 1,410 1,460 1,490 1,540	APRIL	 1,390 1,400 1,470 1,370 1,420 1,480 1,500	1,720 1,700 1,690 1,700 1,690 1,720 1,710 1,690 1,740 1,770 1,770 1,770 1,770 1,850 1,880 1,880 1,860 1,860 1,810 1,810 1,800 1,780	MAY 1,700 1,680 1,670 1,680 1,650 1,650 1,710 1,680 1,640 1,650 1,740 1,760 1,730 1,720 1,770 1,850 1,870 1,860 1,840 1,780 1,780 1,780 1,780 1,780 1,780 1,780 1,780	1,710 1,690 1,680 1,690 1,670 1,680 1,720 1,700 1,650 1,710 1,750 1,770 1,760 1,730 1,810 1,870 1,870 1,880 1,850 1,820 1,800 1,790 1,770

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	EPTEMBE	ER
1 2 3 4 5	1,730 1,700 1,720 1,700 1,710	1,690 1,690 1,700 1,670 1,670	1,710 1,700 1,710 1,690 1,690	918 1,000 1,070 1,110 1,160	838 918 1,000 1,060 1,110	873 964 1,030 1,080 1,140	1,490 1,500 1,500 1,500 1,490	1,480 1,490 1,490 1,490 1,480	1,480 1,490 1,490 1,500 1,490	1,560 1,550 1,560 1,580 1,570	1,530 1,540 1,550 1,540 1,550	1,540 1,540 1,550 1,550 1,560
6 7 8 9 10	1,710 1,680 1,620 1,630 1,630	1,650 1,440 1,510 1,610 1,580	1,680 1,610 1,590 1,620 1,610	1,200 1,230 1,270 1,280 1,310	1,160 1,200 1,220 1,260 1,280	1,170 1,210 1,240 1,270 1,290	1,490 1,480 1,480 1,490 1,480	1,470 1,470 1,480 1,480 1,470	1,480 1,480 1,480 1,480 1,470	1,590 1,580 1,580 1,580 1,580	1,560 1,560 1,570 1,580 1,570	1,570 1,560 1,570 1,580 1,570
11 12 13 14 15	1,610 1,620 1,620 1,640 1,580	1,600 1,610 1,610 1,580 1,520	1,610 1,620 1,610 1,610 1,560	1,310 1,280 1,200 1,280 1,310	1,260 1,180 1,170 1,200 1,280	1,290 1,240 1,180 1,240 1,290	1,480 1,490 1,500 1,500 1,510	1,470 1,480 1,490 1,500 1,500	1,480 1,480 1,490 1,500 1,510	1,570 1,560 1,550 1,550 1,560	1,550 1,550 1,540 1,540 1,540	1,570 1,550 1,540 1,540 1,550
16 17 18 19 20	1,620 1,680 1,680 1,700 1,720	1,480 1,620 1,580 1,580 1,680	1,580 1,640 1,630 1,670 1,690	1,350 1,370 1,380 1,410 1,440	1,310 1,350 1,370 1,380 1,410	1,330 1,360 1,370 1,400 1,430	1,520 1,520 1,530 1,530 1,530	1,510 1,510 1,510 1,520 1,510	1,510 1,520 1,520 1,520 1,520	1,560 	1,540 	1,540
21 22 23 24 25	1,720 1,730 1,600 798 498	1,710 1,580 798 361 378	1,720 1,690 1,250 458 432	1,450 1,450 1,380 1,400 1,420	1,430 1,380 1,370 1,380 1,400	1,440 1,420 1,380 1,390 1,410	1,520 1,520 1,520 1,530 1,520	1,520 1,510 1,510 1,520 1,520	1,520 1,510 1,510 1,520 1,520	 	 	
26 27 28 29 30 31	526 601 705 777 838	498 526 601 705 777	515 559 651 744 809	1,440 1,450 1,460 1,470 1,470 1,480	1,420 1,440 1,450 1,460 1,460 1,470	1,430 1,440 1,450 1,460 1,460 1,480	1,530 1,530 1,540 1,530 1,530 1,540	1,520 1,520 1,520 1,520 1,520 1,520 1,520	1,530 1,530 1,530 1,530 1,530 1,530	 	 	
MONTH	1,730	361	1,390	1,480	838	1,300	1,540	1,470	1,500	1,590	1,530	1,560
YEAR	2,420	361	1,620									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	OBER	NOVE	MBER	DECE	MBER	JANU	ARY	FEBRU	UARY	MAI	RCH
1 2 3	8.3 8.3 8.2	8.2 8.2 8.0	8.5 8.5 8.3	8.3 8.2 8.2	8.3 8.3 8.2	8.2 8.2 8.2	8.0 8.0 8.0	7.9 7.9 7.9				
4 5	8.3 8.4	8.0 8.1	8.3 8.4	8.2 8.2	8.2 8.2	8.2 8.2	8.0 8.0	8.0 7.9				
6 7	8.3 8.5	8.2 8.3	8.4 8.4	8.3 8.3	8.2 8.2	8.1 8.1	8.0 8.0	7.9 7.9				
8	8.5	8.4	8.4	8.3	8.1	8.1	8.0	7.9				
9 10	8.6 8.6	8.4 8.5	8.4 8.4	8.4 8.4	8.1 8.2	8.1 8.1	8.1 8.1	8.0 8.0				
11 12	8.6 8.7	8.5 8.6	8.4 8.4	8.4 8.4	8.2 8.2	8.1 8.1	8.1 8.1	8.0 8.0				
13	8.7	8.6	8.4	8.3	8.1	8.1	8.0	8.0				
14 15	8.6 8.6	8.6 8.6	8.4 8.4	8.3 8.3	8.1 8.1	8.1 8.1						
16 17	8.6 8.6	8.6 8.6	8.3 8.4	8.3 8.3	8.2 8.2	8.1 8.1						
18 19	8.6 8.6	8.6 8.5	8.3 8.3	8.3 8.3	8.2 8.1	8.1 8.0						
20	8.6	8.5	8.3	8.3	8.1	8.0						
21	8.6	8.5	8.3	8.3	8.1	8.0						
22 23	8.6 8.6	8.5 8.5	8.3 8.4	8.3 8.3	8.0 8.0	7.9 8.0						
24 25	8.6 8.6	8.5 8.5	8.4 8.4	8.3 8.3	8.0 8.0	8.0 8.0						
26	8.5	8.4	8.3	8.3	8.0	7.9						
27	8.4	8.3	8.3	8.2	7.9	7.9						
28 29	8.5 8.4	8.4 8.4	8.3 8.3	8.2 8.2	7.9 7.9	7.9 7.8						
30 31	8.4	8.4	8.3	8.2	7.9	7.8						
MONTH	8.4 8.7	8.3 8.0	8.5	8.2	8.0 8.3	7.9 7.8	8.1	7.9				
	API	RIL	MA	ΑY	JUI	NE	JUI	ĹΥ	AUG	UST	SEPTE	MBER
1	API 	RIL 	MA 8.8	8.7	JUI 8.4	8.3	JUI 7.8	7.8	AUG 8.5	8.4	8.3	MBER 8.2
2			8.8 8.8	8.7 8.7	8.4 8.3	8.3 8.2	7.8 8.0	7.8 7.8	8.5 8.4	8.4 8.3	8.3 8.3	8.2 8.1
2 3 4	 	 	8.8 8.8 8.8 8.8	8.7 8.7 8.7 8.7	8.4 8.3 8.2 8.3	8.3 8.2 8.2 8.2	7.8 8.0 8.1 8.2	7.8 7.8 8.0 8.1	8.5 8.4 8.4 8.4	8.4 8.3 8.3 8.3	8.3 8.3 8.3 8.2	8.2 8.1 8.1 8.1
2 3 4 5	 	 	8.8 8.8 8.8 8.8	8.7 8.7 8.7 8.7 8.7	8.4 8.3 8.2 8.3 8.3	8.3 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2	7.8 7.8 8.0 8.1 8.1	8.5 8.4 8.4 8.4 8.3	8.4 8.3 8.3 8.3 8.2	8.3 8.3 8.3 8.2 8.2	8.2 8.1 8.1 8.1 8.0
2 3 4 5 6 7	 	 	8.8 8.8 8.8 8.8 8.8	8.7 8.7 8.7 8.7 8.7 8.6 8.6	8.4 8.3 8.2 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2	7.8 7.8 8.0 8.1 8.1 8.1	8.5 8.4 8.4 8.3 8.5 8.5	8.4 8.3 8.3 8.3 8.2 8.2	8.3 8.3 8.2 8.2 8.2	8.2 8.1 8.1 8.1 8.0 8.1
2 3 4 5	 	 	8.8 8.8 8.8 8.8 8.8 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.2 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1	8.5 8.4 8.4 8.3 8.5 8.5 8.5	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4	8.3 8.3 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.1 8.0 8.1 8.0
2 3 4 5 6 7 8	 	 	8.8 8.8 8.8 8.8 8.8	8.7 8.7 8.7 8.7 8.7 8.6 8.6	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2	7.8 7.8 8.0 8.1 8.1 8.1	8.5 8.4 8.4 8.3 8.5 8.5	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3	8.3 8.3 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.1 8.0
2 3 4 5 6 7 8 9 10			8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.1
2 3 4 5 6 7 8 9 10 11 12 13			8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.1 8.0 8.0 8.0 8.0
2 3 4 5 6 7 8 9 10			8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15			8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15			8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 8.6 8.5 8.5	 8.5 8.5 8.4	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3 8.4 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 8.6 8.5 8.5 8.4	 8.5 8.5 8.4 8.3	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 8.6 8.5 8.5 8.4 8.3	 8.5 8.5 8.4 8.3 8.3	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.1 8.2 8.3	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.6 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.5 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 8.6 8.5 8.5 8.4 8.3	 8.5 8.5 8.4 8.3	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.6 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.1 8.2 8.2	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 8.6 8.5 8.5 8.4 8.3 8.3	 8.5 8.5 8.4 8.3 8.3 8.3	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.0 8.2 8.1	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.4 8.5 8.6 8.6	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	 8.6 8.5 8.5 8.4 8.3 8.3 8.3 8.4 8.7	 8.5 8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.4	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.0 8.0 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.7 8.7 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.6	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.1 8.2 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		 8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.6 8.7 8.8	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3 8.3 8.3 8.7 6 7.6	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.0 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.3 8.2 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.1 8.2 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	 8.6 8.5 8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.7	 8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.6 8.7	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.2 8.3 8.3 8.3 8.3 8.2 8.3 8.4 8.5 8.4 8.5 8.3 8.3 8.3 8.3 8.7 6	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.0 8.1 8.2 8.3 7.6 7.4 7.5 7.5	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.6 8.7 8.7 8.6 8.5 8.5 8.5	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.1 8.0 8.0 8.0 8.1 8.2 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	8.6 8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.4 8.7	8.5 8.5 8.5 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.7 6 7.5 7.6 7.7 7.7 7.7 7.8	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.0 8.7 8.7 7.5 7.6 7.7 7.7	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.6 8.6 8.5 8.5 8.5	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5 8.4 8.4 8.4 8.5	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	 8.6 8.5 8.5 8.4 8.3 8.3 8.3 8.4 8.7 8.8 8.8 8.8	8.5 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.6 8.7 8.8 8.7	8.8 8.8 8.8 8.8 8.8 8.7 8.7 8.7 8.7 8.7	8.7 8.7 8.7 8.7 8.6 8.6 8.5 8.6 8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.5 8.4 8.5 8.4 8.5 8.4 8.5 8.7 6 7.5 7.6 7.7 7.8	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.2 8.0 8.0 8.0 8.0 8.7 8.7 7.6 7.7 7.7	7.8 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.6 8.6 8.6 8.6 8.7 8.7 8.6 8.5 8.5 8.5	7.8 7.8 8.0 8.1 8.1 8.1 8.1 8.2 8.3 8.2 8.2 8.2 8.2 8.3 8.4 8.4 8.5 8.6 8.6 8.5 8.6 8.5 8.4	8.5 8.4 8.4 8.3 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.4 8.3 8.3 8.2 8.2 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3	8.2 8.1 8.1 8.0 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.2

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBE	R	Ε	DECEMBE	R		JANUARY	•
1 2 3 4 5	7.3 6.7 5.1 8.7 10.3	4.6 4.8 1.5 3.8 5.9	6.1 6.1 3.5 6.7 7.9	19.7 18.8 16.8 17.2	17.7 15.5 15.5 15.9	18.6 17.0 16.3 16.5	21.7 20.7 20.9 22.0 22.2	20.0 19.3 19.1 20.2 21.0	20.7 19.8 20.0 20.9 21.4	26.0 25.2 26.6 26.6 26.0	23.4 23.9 24.2 24.6 24.0	24.4 24.5 25.4 25.6 25.2
6 7 8 9 10	11.1 12.5 12.5 13.1 13.2	7.7 10.1 10.8 11.9 12.1	9.6 11.1 11.6 12.4 12.9	17.1 16.8 16.9 17.1 17.1	15.9 15.8 15.0 15.6 14.7	16.5 16.2 15.9 16.3 16.0	21.8 21.0 22.2 22.9	19.7 19.6 20.0 20.4	20.9 20.3 21.0 21.6	24.7 25.6 27.2 28.2 28.5	21.9 21.9 23.1 24.2 25.1	23.6 23.7 25.0 26.1 27.0
11 12 13 14 15	13.2 14.1 15.6 15.4 14.6	12.1 11.3 13.7 14.2 12.8	12.8 12.7 14.6 14.7 13.8	17.9 17.8 18.6 18.5 19.1	16.1 16.7 16.7 16.4 17.4	17.0 17.3 17.4 17.5 18.0	23.6 23.1 22.8 22.9 23.2	21.1 21.5 21.4 20.8 21.1	22.4 22.3 21.9 21.5 21.9	29.4 29.2 28.4 	26.3 26.5 25.4	28.0 28.2 27.1
16 17 18 19 20	15.6 16.4 15.7 15.7 16.2	14.0 14.3 14.2 14.0 15.4	14.7 15.2 14.9 14.9 15.8	19.2 19.6 18.9 17.9 17.6	18.6 18.2 16.9 17.0 16.2	18.9 18.9 17.7 17.4 16.9	23.5 22.9 22.6 21.3 19.8	21.6 21.5 20.6 19.1 18.2	22.5 22.0 21.5 20.0 19.0	 	 	
21 22 23 24 25	15.9 16.0 15.9 16.5 16.4	15.0 15.2 15.3 15.9 15.8	15.4 15.6 15.7 16.3 16.2	17.0 16.6 16.6 18.9 20.1	15.2 15.6 16.0 16.4 18.9	15.9 16.0 16.3 17.3 19.4	19.4 19.1 20.3 22.1 22.4	17.3 16.8 18.3 19.7 20.7	18.0 17.8 19.2 20.4 21.5	 	 	
26 27 28 29 30 31	16.2 16.2 15.7 15.3 16.4 18.1	15.4 15.2 15.0 14.6 14.6 16.3	15.9 15.7 15.4 15.0 15.5 17.2	21.4 21.2 21.4 21.0 20.8	20.1 20.0 20.6 19.5 19.2	20.8 20.6 21.0 20.4 19.9	23.4 23.7 23.7 23.6 23.2 25.9	22.0 22.6 22.1 21.4 21.2 22.6	22.7 23.1 23.1 22.7 22.5 23.7	 	 	
	10.1	1.5	12.1	21.4	14.7	177	25.9	16.0	21.2	20.4	21.9	25.7
MONTH	18.1	1.3	13.1	21.4	14.7	17.7	23.9	16.8	21.2	29.4	21.9	23.1
		FEBRUAR		21.4	MARCH	17.7	23.9	APRIL	21.2		MAY	
1 2 3 4 5				 		 	 		 	15.2 15.4 14.5 12.4 13.1		13.0 12.3 13.1 11.0 11.5
1 2 3 4	 	FEBRUAR' 	 	 	MARCH	 	 	APRIL	 	15.2 15.4 14.5 12.4	MAY 11.5 10.6 11.9 10.0	13.0 12.3 13.1 11.0
1 2 3 4 5 6 7 8 9	 	FEBRUAR'	· · · · · · · · · · · · · · · · · · ·	======================================	MARCH			APRIL	 	15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUAR'			MARCH			APRIL		15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0 11.9 13.0 13.2 12.2 10.8	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4 10.7 11.6 11.8 10.2 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY			MARCH		 13.0 12.0 12.1	APRIL	 12.2 11.3 11.8	15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0 11.9 13.0 13.2 12.2 10.8 11.4	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4 10.7 11.6 11.8 10.2 9.7 9.9 8.9 8.7 9.0 8.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUARY			MARCH		13.0 12.0 11.7 11.6 11.0 10.6 10.7 14.0 13.1 13.8 13.0 12.9 15.9	APRIL		15.2 15.4 14.5 12.4 13.1 14.5 14.2 13.5 12.0 11.9 13.0 13.2 12.2 10.8 11.4 10.8 10.9 10.1 12.3 11.2 11.1 10.7 10.0 12.1 11.6 10.5 10.3 9.2 8.4	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8 9.1 8.9 8.0 7.7 7.6 8.5 8.1 7.7 7.3 6.5 6.4	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4 10.7 11.6 11.8 10.2 9.7 9.9 8.9 8.7 9.0 8.9 10.5 10.1 9.4 9.3 8.7 10.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 29		FEBRUARY			MARCH		13.0 12.0 12.1 11.7 11.6 11.0 10.7 14.0 13.1 13.8 13.0 12.9	APRIL	 12.2 11.8 11.4 11.4 10.7 10.0 9.7 11.2 11.8 11.9 11.3 11.5	15.2 15.4 14.5 12.4 13.1 14.5 12.0 11.9 13.0 13.2 12.2 10.8 11.4 10.8 10.9 10.1 12.3 11.2 11.1 10.7 10.0 12.1 11.6 10.5 10.3 9.2	MAY 11.5 10.6 11.9 10.0 10.1 10.9 11.1 9.3 9.2 9.7 10.6 10.4 8.9 8.8 8.7 7.2 6.7 7.4 7.8 9.1 8.9 8.0 7.7 7.6 8.5 8.1 7.7 7.3 6.5	13.0 12.3 13.1 11.0 11.5 12.5 12.8 11.2 10.4 10.7 11.6 11.8 10.2 9.7 9.9 8.9 8.7 9.0 8.9 10.5 10.1 9.4 9.3 8.7 10.2 9.7 10.4 9.7 9.9 10.5

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	•	S	ЕРТЕМВЕ	ER
1 2 3 4 5	11.6 10.4 9.8 10.2 10.3	8.6 7.2 8.0 9.0 7.9	10.0 8.7 9.1 9.5 9.2	6.1 7.1 7.6 7.9 8.2	4.8 5.0 5.0 5.8 5.9	5.4 5.9 6.2 6.7 7.0	9.8 10.1 10.5 10.5 10.1	6.7 7.0 7.0 7.1 6.9	8.2 8.5 8.6 8.7 8.4	8.0 7.9 8.1 8.1 8.0	6.5 6.0 6.2 5.5 5.7	7.2 6.8 7.0 6.8 6.9
6 7 8 9 10	9.6 9.6 10.2 9.6 8.3	7.4 7.5 7.4 7.4 6.9	8.4 8.6 8.7 8.3 7.5	7.8 8.0 7.8 7.5 8.1	5.9 5.9 6.2 6.4 6.8	6.8 6.9 7.0 6.9 7.5	11.1 10.9 10.1 9.5 10.0	6.9 6.9 6.7 6.6 6.4	8.7 9.0 8.6 7.9 7.9	7.9 7.8 8.4 8.5 8.9	5.5 5.3 6.2 6.7 7.3	6.7 6.5 7.1 7.5 8.0
11 12 13 14 15	10.4 12.4 13.8 19.4 18.4	7.2 8.0 8.2 8.8 11.2	8.5 9.7 10.7 12.9 14.8	7.8 7.2 6.9 6.6 6.7	7.1 6.7 6.5 6.3 6.1	7.4 7.0 6.7 6.4 6.4	10.1 9.9 9.4 9.2 9.1	6.7 6.5 6.6 6.7 6.5	8.4 8.3 8.2 7.9 7.8	9.0 9.8 9.6 9.9 9.8	7.5 6.9 8.1 8.2 8.2	8.1 8.7 8.9 9.0 8.9
16 17 18 19 20	17.1 7.8 9.2 10.2 10.8	7.1 3.9 3.4 6.9 7.3	10.9 5.6 6.0 8.2 9.0	6.8 6.6 7.4 7.5 7.1	6.1 6.0 6.2 6.2 6.0	6.4 6.3 6.7 6.7 6.5	8.8 8.6 8.1 8.0 7.6	6.4 6.5 6.2 6.4 5.7	7.7 7.7 7.2 7.2 6.6	10.3	8.3 	9.0
21 22 23 24 25	10.9 8.9 7.4 4.5 3.5	6.2 7.0 4.5 3.5 3.1	7.8 7.8 6.3 4.0 3.3	7.6 8.0 8.9 9.5 8.7	6.1 6.8 7.0 7.2 7.2	6.8 7.3 7.8 8.2 7.9	7.4 7.9 8.1 7.3 7.5	6.1 7.1 7.0 5.7 6.0	6.7 7.5 7.6 6.5 6.6	 	 	
26 27 28 29 30 31	4.6 4.6 4.8 5.2 5.4	3.5 4.4 4.4 4.6 4.8	4.0 4.5 4.5 4.9 5.1	8.8 8.7 9.6 8.8 9.5 9.9	6.9 6.9 7.0 6.8 6.5 6.7	7.7 7.8 8.1 7.8 7.9 8.2	8.0 7.0 8.3 7.1 8.3 8.5	5.7 5.0 5.4 5.6 5.8 6.8	6.5 5.8 6.5 6.4 6.8 7.5	 	 	
MONTH	19.4	3.1	7.9	9.9	4.8	7.0	11.1	5.0	7.6	10.3	5.3	7.7
YEAR	29.4	1.5	12.4									

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER		N	OVEMBE	R	D	ECEMBE	R		JANUARY	•
1 2 3 4 5	79 85 100 72 120	41 33 33 30 23	61 55 52 45 49	13 35 32 22	7.0 10 13 15	12 27 23 23 16	13 15 16 28 16	9.0 11 11 8.0 8.0	8.8 9.8 11 8.9 7.8	8.0 9.0 7.0 6.0 6.0	4.0 5.0 5.0 5.0 4.0	5.6 5.9 5.6 5.8 5.4
6 7 8 9 10	210 60 34 32 240	17 17 19 17 16	29 29 25 24 25	16 20 19 18 19	12 12 12 13 14	14 15 16 14 16	14 12 10 12	7.0 7.0 7.0 6.0	7.7 6.9 6.1 5.8 5.8	6.0 7.0 7.0 8.0 8.0	4.0 4.0 4.0 4.0 4.0	5.2 5.3 4.9 5.6 5.8
11 12 13 14 15	34 35 43 29 36	19 22 21 19	28 29 30 27 24	19 24 26 20 21	13 14 14 12 14	15 15 20 14 17	8.0 8.0 8.0 11 8.0	5.0 5.0 5.0 5.0 5.0	6.4 6.3 6.1 6.1 5.7	9.0 9.0 8.0 	4.0 4.0 5.0	5.0 5.6 6.1
16 17 18 19 20	26 20 33 23 30	15 14 15 14 14	21 19 23 20 20	16 15 14 14 21	12 10 11 9.0 10	13 11 11 9.9	12 10 8.0 7.0 18	5.0 5.0 5.0 5.0 5.0	6.2 6.4 6.1 5.9 6.0	 	 	
21 22 23 24 25	21 21 20 19 16	11 12 10 9.0 9.0	18 18 16 15	24 16 21 18 27	12 13 13 13 11	14 12 13 13 12	8.0 9.0 11 8.0 7.0	5.0 5.0 5.0 5.0 5.0	5.8 5.8 6.7 6.0 5.9	 	 	
26 27 28 29 30 31	22 15 14 20 16 16	9.0 8.0 9.0 9.0 10 6.0	15 13 14 16 16 13	15 14 14 13 14	11 10 9.0 9.0 9.0	11 10 9.6 8.8 8.8	8.0 8.0 10 10 8.0 8.0	5.0 5.0 6.0 6.0 5.0 5.0	6.2 6.5 7.1 7.0 6.6 6.3	 	 	
MONTH	240	6.0	26	35	7.0	14	28	5.0	6.8	9.0	4.0	5.5
MONTH		6.0 FEBRUARY		35	7.0 MARCH	14	28	5.0 APRIL	6.8	9.0	4.0 MAY	5.5
MONTH 1 2 3 4 5				 		 	 		6.8 	9.0 		5.5 47 54 53 49 44
1 2 3 4	 	FEBRUARY 	 	 	MARCH	 	 	APRIL	 	 	MAY	47 54 53 49
1 2 3 4 5 6 7 8 9	 	FEBRUARY	 		MARCH		 	APRIL			MAY	47 54 53 49 44 35 44 47 46
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY			MARCH		 	APRIL			MAY	47 54 53 49 44 35 44 47 46 43 31 36 42 42
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY			MARCH		 	APRIL	 53 53 75		MAY	47 54 53 49 44 35 44 47 46 43 31 36 42 42 46 51 47 49 60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUARY			MARCH			APRIL	 53 53 75 150 87 78 81 83 71 57 54 61 53	73 80 65 65 240 67 60 73 73	MAY	47 54 53 49 44 35 44 47 46 43 31 36 42 42 46 51 47 49 60 47 60 62 57 61 53 58 51 61 59
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY			MARCH			APRIL	 	73 80 65 65 240	MAY	47 54 53 49 44 35 44 47 46 43 31 36 42 42 46 51 47 49 60 47 60 62 57 61 53 58 51 61

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	,	S	EPTEMBI	ER
1 2 3 4 5	52 200 180 72 120	36 42 41 44 48	42 56 60 52 67	31 28 910 85 34	19 16 19 29 27	24 21 26 32 29	 	 	37 36 34 30 29	 	 	30 16
6 7 8 9 10	83 89 90 75 110	45 35 38 44 62	67 66 60 57 85	44 46 53 58 58	33 41 42 48 54	35 41 45 50 52	 	 	31 36 36 38 40	 	 	12 11 16 17 19
11 12 13 14 15	88 110 110 120 87	55 52 52 62 60	73 78 79 91 76	54 53 51 60 69	48 43 43 47 54	48 44 43 51 57	 	 	38 41 33 32 30	 	 	20 11 8.7 8.4 5.4
16 17 18 19 20	99 110 81 63 110	45 51 35 31 39	81 77 63 39 58	65 66 65 63 68	52 51 52 50 50	53 53 52 50 52	 	 	26 25 24 22 20	 	 	6.1
21 22 23 24 25	86 90 680 570 190	34 38 78 190 70	58 65 250 300 120	66 	49 	51 49 51 50 50	 	 	18 17 19 21 21	 	 	
26 27 28 29 30 31	70 36 28 27 32	36 26 23 24 23	49 29 24 25 27	 	 	47 45 42 40 38 37	 	 	21 25 25 34	 	 	
MONTH YEAR	680 910	23 4.0	76 34	910	16	44			29			14

P

 $LOCATION.--Lat\ 46^{\circ}04'30'', long\ 96^{\circ}18'24'', in\ SE^{1}\!\!/_{4}\ NE^{1}\!\!/_{4}\ sec.\ 15, T.\ 130\ N., R.\ 45\ W., Wilkin\ County, Hydrologic\ Unit\ 9020101, 2.5\ miles\ north\ of\ Nashua\ on\ Wilkin\ County\ 17.$

DRAINAGE AREA.--99.2 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		»U	Specif			Ammonia +			Nitrite +	
Date	Time	Instantaneous discharge, cfs (00061)	bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001													
06 DEC	0800	1.5	14	9.7	7.4	1,150	4.5	6.5	0.69	< 0.050	< 0.050	0.090	< 0.010
11	0920	2.5	1.0	11.0	7.4	2,000	0.0	-0.2	1.6	< 0.050	< 0.050	0.350	< 0.010
JAN 2002 15 FEB	0920	1.3	8.0	12.6	7.6	2,510	-5.0	-0.3	2.1	< 0.050	< 0.050	0.530	< 0.010
12 APR	0915	1.0	7.0	10.7	7.6	2,320	-6.1	-0.3	2.1	< 0.050	< 0.050	0.120	< 0.010
16	0915	18	29	8.5	7.7	1,240	22.0	15.1	1.9	< 0.050	0.060	0.890	0.020
MAY 14	0905	31	32	11.4	8.3	1,690	10.5	11.8	1.9	< 0.050	< 0.050	2.10	0.060
JUN 04	0915	3.4	88	7.4	8.1	1,700	13.3	13.0	2.2	0.090	0.090	< 0.050	< 0.010
JUL 09 23	1000 0910	87 35	40 18	4.6 7.7	7.5 7.8	658 1,080	26.2 21.0	24.5 20.0	1.4 2.0	0.120 0.180	0.120 0.180	1.30 0.070	0.120 0.050
AUG 06 20	0920 0900	12 6.2	48 41	6.7 7.5	7.8 7.8	1,190 1,280	17.7 18.5	20.0 16.4	2.2 1.9	0.090 <0.050	0.080 <0.050	0.210 0.170	0.020 <0.010
SEP 10 24	0915 0855	1.8 E.01	36 30	6.5 9.5	7.9 8.1	1,380 1,530	17.0 9.1	19.1 9.7	1.9 1.9	0.080 <0.050	0.110 <0.050	0.160 <0.050	<0.010 <0.010

	Ortho- phos- phate,	Phos-	E coli, m-TEC	Fecal coli- form, M-FC	Fecal strep- tococci KF	Chloro- phyll a phyto-	Suspnd. sedi- ment,	Sus- pended sedi-
	water, fltrd,	phorus, water,	MF, water,	0.7u MF	MF,	plank- ton,	sieve diametr	ment concen-
	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
NOV 2001								
06	0.084	0.143	<10	15k	66k	7.59	98	14
DEC	0.00	011 15	110	1011	oon	7.65	, ,	
11	0.100	0.157				6.17	91	7
JAN 2002								
15	0.036	0.135				30.7	99	8
FEB 12	0.022	0.168				63.7	94	25
APR	0.022	0.108				03.7	94	23
16	0.081	0.210	E4k	31k	37k	25.6	98	29
MAY	*****							
14	0.056	0.136	40k	35k	88	4.91	96	33
JUN								
04	0.119	0.325	560	520	285	17.2	100	80
JUL 09	0.393	0.546	300k	600	2 000	8.05	87	49
23	0.393	0.340	83k	140	2,900 1,240	18.8	96	64
AUG	0.276	0.422	OJK	140	1,240	10.0	70	0-
06	0.204	0.369	<2	220	740	13.9	100	99
20	0.161	0.315			2,060k	18.0	100	85
SEP								
10	0.216	0.376	270	240	940	24.9	100	68
24	0.152	0.322	62	100	184	24.8	98	57

Remark codes used in this table:

< -- Less than
E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
DEC 2002													
10	0900	0.38	11	13.4	7.6	2,240	-4.3	-0.2	2.1	0.080	0.090	0.180	< 0.010
MAR 2003													
25	1630	2.6	8.0		8.0	920	7.5	1.9	2.1	0.500	0.500	0.490	0.040
APR													
15	1540	0.52	30	12.3	8.4	1,070	20.3	15.7	1.4	< 0.050	< 0.050	< 0.050	< 0.010
MAY	00.50				0.0	4.740	0.0	10.6	4.0	0.050	0.050	0.050	0.040
20	0850	12	60	9.2	8.0	1,710	8.0	10.6	1.8	< 0.050	< 0.050	< 0.050	< 0.010
JUN													
03	1345	5.0	48	10.1	8.2	1,580	23.8	20.5	2.0	< 0.050	0.050	< 0.050	< 0.010
17	1615	3.3	66	9.3	8.3	1,630	29.5	30.0	2.4	< 0.050	< 0.050	< 0.050	< 0.010

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
DEC 2002								
10	0.024	0.095				8.65	92	23
MAR 2003								
25	0.005	0.229				4.71	94	9
APR								
15	0.040	0.131	140	140	95	12.1	95	14
MAY								
20	0.035	0.130	E100k	110	161	9.00	99	43
JUN								
03	0.089	0.210	E300k	190	124	18.7	100	35
17	0.122	0.278	1.100	1.800	1.680	37.2	100	38

Remark codes used in this table:

< -- Less than
E -- Estimated value

05051000 RABBIT RIVER AT CAMPBELL, MN

 $LOCATION.--Lat~46^{\circ}05'40", long~96^{\circ}24'40", in~SE^{1}\!\!/_{4}~sec.~2, T.~130~N., R.~46~W., Wilkin~County, Hydrologic~Unit~9020101, at~Campbell.$ DRAINAGE AREA.--221 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		"U	Specif			Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	bidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001													
06 DEC	0945	E22	12	11.0	7.9	1,520	7.4	7.0	1.1	< 0.050	< 0.050	< 0.050	< 0.010
12	1000	2.7	3.0	13.4	7.7	2,110	0.2	0.2	1.1	< 0.050	< 0.050	0.060	< 0.010
JAN 2002 15	1050	1.6	14	10.6	7.4	2,460	-8.1	0.1	1.7	0.100	0.110	0.440	< 0.010
FEB 12	1040	E1.2	21	12.4	7.4	2,400	-5.0	0.0	2.7	< 0.050	< 0.050	0.130	< 0.010
MAR 19	0945		9.0	11.0	7.5	1,160	1.0	-0.2	1.1	0.170	0.180	0.750	0.020
APR 16	1135	24	21	9.0	7.8	1,080	26.4	15.3	1.4	0.060	0.070	1.10	0.030
MAY 14	1100	57	28	10.7	8.1	1,690	14.5	11.6	2.0	0.110	0.170	2.50	0.090
JUN 04	1055	2.6	49	5.1	7.7	1,490	17.0	15.0	2.0	0.290	0.290	0.290	0.050
JUL 09	1130	170	59	4.7	7.7	950	28.0	25.0	1.8	0.090	0.090	1.30	0.110
23 AUG	1045	38	17	6.6	7.7	1,070	20.0	21.2	1.9	0.090	0.070	0.100	0.030
06 20	1030 0940	9.4 E6.2	27 27	6.1 6.4	7.8 7.8	1,230 1,220	19.5 19.2	21.4 18.2	1.9 1.9	0.080 <0.050	0.070 <0.050	0.180 0.150	0.020 <0.010
SEP 10	1015	E5.2	9.0	4.4	7.7	1,300	20.7	19.8	1.5	0.070	0.120	< 0.050	< 0.010

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06 DEC	0.051	0.129	<10	23k	28k	24.4	94	12
12 JAN 2002	0.024	0.087				12.3	66	41
15	0.045	0.138				30.7	71	55
FEB 12	0.008	0.334				17.9	98	9
MAR 19	0.104	0.170				6.31	99	9
APR 16	0.101	0.216	10k	45k	100	32.7	98	21
MAY 14	0.074	0.174	E4k	40k	180	12.4	98	49
JUN 04	0.180	0.342	100k	390	680	19.8	100	44
JUL 09	0.274	0.528	520	460	3,100	33.8	96	80
23 AUG	0.227	0.400	<5k	200	786	36.1	94	69
06 20	0.187 0.150	0.350 0.284	230k 460	190 600	700 1,480	32.8 21.8	98 99	34 57
SEP 10	0.227	0.329	150	190	4,100	14.5	99	14
					,			-

Remark codes used in this table: < -- Less than E -- Estimated value

 $\begin{tabular}{ll} Value & qualifier codes used in this table: \\ & k & -- Counts & outside & acceptable & range \\ \end{tabular}$

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

			T					Ammonia f. +							Nitrite		
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen mg/L (00300)	, std units	tan wat uS/ 25 d	duc- ce, unf cm egC	Temp atur air deg (0002	e, C	Γemper ature, water, deg C (00010)	org - wa uni mg as	+ g-N, tter, fltrd g/L s N 625)	Ammo water fltrd mg/I as N (0060	r, , 1	mmonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
MAY 2003 20 JUN	1040	12	110	7.8	8.0	1,8	80	13.	8	13.2	2	.1	< 0.050	0	0.060	0.050	0.010
03 17	1655 1700	4.7 E3.3	53 20	6.5 6.0	7.7 8.1	1,8 1,8		21. 30.		18.0 25.0		.0	<0.050 <0.050		<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
		Da	ph ph: wa flt mg ate as (000	ter, pl rd, v g/L u P i	Phos- morus, vater, valerd ng/L 16	E coli, n-TEC MF, water, col/ 00 mL 31633)	Fee co. for M-1 0.7u co. 100 (316	li- m, FC MF bl/ mL	Feca strep tococ KF MF, col/ 100 m (3167	ci p p aci	hloro- hyll a hyto- lank- ton, cid m, ug/L 2211)	diar per	di- ent, eve netr cent 3mm	Sus- pende sedi- ment concer tration mg/L (80154	d i n- n		
		MAY 20 JUN 03	. 0.0)85 ().215 E	E28k E140k		150	E100	0	23.6 25.4	9	9	104 53			
).269	120	2	260	24	8	34.6	9	0	34				

Remark codes used in this table: < -- Less than E -- Estimated value

 $\begin{tabular}{ll} Value qualifier codes used in this table: \\ k \ -- Counts outside acceptable range \end{tabular}$

 $LOCATION.--Lat\ 46^{\circ}06'43'', long\ 96^{\circ}29'36'', in\ SE^{1}\!\!/_{4}\ SE^{1}\!\!/_{4}\ sec.\ 31,\ T.\ 131\ N.,\ R.\ 46\ W.,\ Wilkin\ County,\ Hydrologic\ Unit\ 09020101,\ 4\ miles\ east\ of\ Campbell\ on\ U.S.\ Highway\ 75.$

DRAINAGE AREA.--298 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through June 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		-U	Specif			Ammonia +			Nitrite +	
Date	Time	Instantaneous discharge, cfs (00061)	bidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001													
06 DEC	1035	7.7	30	10.4	7.8	1,230	9.0	6.8	1.1	< 0.050	< 0.050	< 0.050	< 0.010
11 JAN 2002	1530	3.0	4.0	13.2	7.7	1,720	4.5	0.3	0.89	< 0.050	< 0.050	< 0.050	< 0.010
16	0930	2.0	12	12.9	7.5	2,520	-6.9	0.0	1.5	0.050	< 0.050	0.250	< 0.010
FEB 13	0915	0.90	5.0	12.5	7.4	2,620	-0.8	-0.2	2.3	< 0.050	< 0.050	< 0.050	< 0.010
MAR 19	1650	6.0	0.0	16.5	7.8	1,180	<-5.0	0.0	1.0	< 0.050	< 0.050	0.430	0.010
APR 16	1710	35	42	11.8	8.0	970	28.8	19.4	1.6	< 0.050	< 0.050	1.20	0.050
MAY 14	1550	81	24	13.9	8.1	1,690	23.2	15.3	1.8	< 0.050	0.060	2.70	0.110
JUN 04	1650	4.0	98	4.9	7.8	1,030	23.0	20.0	2.3	0.460	0.450	0.420	0.080
JUL 10	0950	648	130	5.1	7.7	535	19.8	23.9	1.4	0.100	0.100	0.590	0.060
23 AUG	1650	61	41	5.7	7.6	964	18.0	21.4	2.1	0.070	0.080	0.150	0.030
06 20	1615 1505	16 1.3	77 83	8.7 7.9	8.2 8.1	1,210 1,200	23.9 24.7	21.6 20.5	2.6 2.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.010 <0.010
SEP 10	1545	E7.0	63	6.4	8.0	1,110	25.4	21.6	2.2	0.090	0.150	< 0.050	< 0.010

	Ortho-			Fecal	Fecal	Chloro-	Suspnd.	Sus-
	phos-		E coli,	coli-	strep-	phyll a	sedi-	pended
	phate,	Phos-	m-TEC	form,	tococci	phyto-	ment,	sedi-
	water,	phorus,	MF,	M-FC	KF	plank-	sieve	ment
	fltrd,	water,	water,	0.7u MF	MF,	ton,	diametr	concen-
-	mg/L	unfltrd	col/	col/	col/	acid m,	percent	tration
Date	as P	mg/L	100 mL	100 mL	100 mL	ug/L	<.063mm	mg/L
	(00671)	(00665)	(31633)	(31625)	(31673)	(32211)	(70331)	(80154)
NOV 2001								
06	0.134	0.213	37k	83k	50k	19.1	98	18
DEC								
11	0.061	0.115				19.8	99	7
JAN 2002								
16	0.034	0.109				30.2	73	63
FEB	0.005	0.240				42.0		
13	< 0.005	0.210				12.9		
MAR 19	0.000	0.152				11.6	96	12
APR	0.080	0.153				11.0	96	12
16	0.105	0.257	E5k	25k	20k	41.3	98	38
MAY	0.103	0.237	LJK	23K	20K	41.3	90	36
14	0.093	0.182	26k	12k	66	9.68	99	24
JUN	0.075	0.102	2010	121	00	7.00	,,,	
04	0.330	0.582	25k	66k	231	34.5	100	79
JUL								
10	0.028	0.493	900	700k	3,000	12.5	98	125
23	0.320	0.561	<5k	50k	1,420	43.6	99	90
AUG								
06	0.193	0.492			400	36.5	100	104
20	0.179	0.391	E2k	E2k	155	46.0	99	59
SEP								
10	0.357	0.622	200k	86	780	46.7	88	103

Remark codes used in this table:

< -- Less than
E -- Estimated value

Value qualifier codes used in this table: k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solve oxyge mg/L (00300	field n, std unit	er, con rd tar d, wat l uS ts 25 d	ecif. duc- nce, unf /cm leg C	Temperature air, deg (e, at wa C de	mper- ure, ater, eg C 0010)	Ammon + org-N, water, unfltrd mg/L as N (00625	Amm wat I fltr mg as	ter, rd, g/L N	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
MAY 2003 20 JUN 04	1650 1230	17 E6.0	85 54	9.8 8.4	8.3 8.2)00 970	17.6 22.8		4.7 9.5	2.2 2.3	<0.0		<0.050 <0.050	<0.050 <0.050	0.010 <0.010
		Da MAY 20 JUN 04	te as (000	os- ate, ter, j rd, g/L P 571) (Phos- phorus, water, unfltrd mg/L 00665)	E coli, m-TEC MF, water, col/ 100 mL (31633) <10	Fec col form M-1 0.7u co 100 (316	li- m, FC MF ol/ mL 525)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chlo phy phy plan to acid ug (322	ell a etc- nk- n, d l m, p /L <.! 211) (7	uspnd. sedi- ment, sieve iametr ercent 063mm 70331)	pen second conductrat mg (80)	ded di- ent cen- tion g/L 154)		

Remark codes used in this table: < -- Less than E -- Estimated value

LOCATION.--Lat 46°23'55", long 96°39'08", in NW¹/₄ NW¹/₄ sec. 30, T. 134 N., R. 47 W., Wilkin County, Hydrologic Unit 09020104, 2 miles north of Brushvale.

DRAINAGE AREA.--19 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April through May 2002.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Т		ωII	Cma	.: £	Ammonia if. +					Nitrite		
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	units	Spec cond tand wat uS/d 25 de (000	luc- ce, Ten unf ato cm a egC de	ire, ir, g C	Temper- ature, water, deg C (00010)	org-N water unfltro mg/L as N (00625	, wate d fltrd mg/l as N	l, unflt L mg/l I as N	r, water rd fltrd, L mg/L N as N	Nitrite water, fltrd, mg/L as N (00613)	
APR 2002 15	1155	3.5	0.0	11.4	7.5	5	15 24	4.0	15.3	0.84	<0.05	0 <0.05	0 0.900	0.020	
MAY 13	1135	3.8	0.0	13.7	7.6	1,4	10 18	3.0	13.2	1.5	< 0.05	0 <0.05	0 1.80	0.020	
		Dε	ph ph wa fli m ate as	ter, ph rd, w g/L ur s P n	hos- m- lorus, M later, w nfltrd c ng/L 100	coli, TEC MF, ater, col/ 0 mL (633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococc KF MF, col/ 100 m (3167)	- phy ci phy pla to acio L ug	/ll a yto- nk- on, c d m, p g/L <.	oercent 063mm	Sus- pended sedi- ment concen- tration mg/L (80154)			
		APR 1 15 MAY 13	. 0.			1k 1k	6k 19k	21k 57		.0	98 91	2			

Remark codes used in this table:

< -- Less than
E -- Estimated value

 $LOCATION.--Lat~46^{\circ}23'55", long~96^{\circ}39'08", in~NE^{1}\!\!/_{4}~NE^{1}\!\!/_{4}~sec.~24, T.~134~N., R.~48~W., Wilkin~County, Hydrologic~Unit~09020104, 2~miles~south~of~Kent~on~Wilkin~County~20.$

DRAINAGE AREA.--54 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2001 through July 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

			Tur-		"U	Specif			Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	bidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001													
06	1230	4.4	2.0	10.3	7.5	955	10.0	6.3	0.76	< 0.050	0.060	0.620	< 0.010
DEC 10	1515	0.30	3.0	9.6	7.3	1,800	-2.9	0.0	0.93	< 0.050	0.070	0.090	< 0.010
JAN 2002 14	1530	0.17	6.0	11.7	7.5	2,160	1.0	-0.2	1.0	< 0.050	0.070	0.190	< 0.010
MAR													
18 APR	1310	2.1	9.0	10.4	7.5	647	-2.0	-0.3	1.9	0.290	0.310	1.60	0.060
15	1340	12	2.0	10.7	7.6	661	23.0	14.0	1.1	< 0.050	< 0.050	0.410	0.020
MAY 13	1255	8.4	15	11.0	7.8	1,150	16.5	13.0	1.4	< 0.050	< 0.050	0.950	0.010
JUN	1233	0.1	10	11.0	7.0	1,150	10.5	13.0	1	10.050	10.050	0.750	0.010
03	1135		0.0	17.0	8.4	1,680	20.0	17.5	1.3	< 0.050	< 0.050	< 0.050	< 0.010
24	1600	0.23	0.0	<20.0	8.8	831	33.5	33.5	0.98	< 0.050	< 0.050	< 0.050	< 0.010
JUL 08	1430	5.3	40	6.0	7.7	776	29.5	26.5	1.6	0.070	0.070	0.480	0.030
22	1115	2.1	6.0	8.6	7.6	981	21.5	22.5	1.6	0.250	0.240	0.200	0.090
SEP													
09	1520	1.1	6.0	10.8	7.4	805	19.3	21.9	1.1	< 0.050	< 0.050	0.180	0.010

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 2001								
06	0.217	0.249	150k	60k	727	3.05	99	5
DEC								
10	0.122	0.153				1.53	13	21
JAN 2002	0.120	0.165				1.04	1.1	20
14 MAR	0.139	0.165				1.84	11	38
18	0.423	0.491				3.21	98	13
APR	0.123	0.171				3.21	70	13
15	0.122	0.215	E2k	E2k	50	8.31	86	9
MAY								
13	0.073	0.093	18k	28k	106	3.14	99	7
JUN								
03	0.225	0.278	<1k	22	65	4.17	92	5 5
24	0.306	0.356	380k	160k	720	2.95	95	5
JUL								
08	0.381	0.499	2,100	800	7,400	15.8	99	20
22	0.666	0.797	200k		364	10.8	100	33
SEP								
09	0.560	0.647	110	120	1,320	11.5	99	9

Remark codes used in this table:

Value qualifier codes used in this table:

< -- Less than E -- Estimated value

k -- Counts outside acceptable range

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002													
07	1030	0.10	0.0	16.7	7.8	1,580	16.0	10.0	0.79	< 0.050	0.050	< 0.050	< 0.010
NOV	4420	0.50	- 0	440	- /	4.440	4.0	0.0	0.00	0.050	0.050	0.050	0.040
04 MAR 2003	1120	0.78	5.0	14.0	7.6	1,440	4.8	0.8	0.92	< 0.050	< 0.050	< 0.050	< 0.010
24	1125	5.1	21	10.2	7.2	654	13.5	6.1	2.0	0.430	0.430	1.10	0.090
APR	1120	0.1		10.2		00.	1010	0.1	2.0	00	00	1110	0.070
14	1130	0.78	30	16.5	8.3	1,100	21.0	18.0		< 0.050	< 0.050	< 0.050	< 0.050
MAY	4440		4.0		0.0	4.200		450		0.050	0.050	0.050	0.000
19 JUN	1140	14	10	11.4	8.0	1,300	11.6	15.2	1.6	< 0.050	< 0.050	0.870	0.020
02	1235	3.9	10	8.9	8.0	1,330	19.5	17.5	1.6	< 0.050	< 0.050	0.170	0.010
16	1140	3.9	5.0	7.8	8.0	1,380	29.5	22.7	1.6	< 0.050	< 0.050	< 0.050	< 0.010
JUL						-,							
09	1555	2.6	54	6.9	7.3	1,100	19.2	18.5	1.6	0.090	0.160	0.460	0.020
21	1530	1.2	6.0	14.8	8.2	1,140	23.8	23.3	1.5	< 0.050	< 0.050	0.170	0.010

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT 2002								
07	0.123	0.181	20	24	20	0.640	99	9
NOV								
04	0.127	0.161	100k	2k	6k	0.960	87	30
MAR 2003 24	0.237	0.324				2.20	97	13
APR	0.237	0.324				3.20	97	13
14	0.119	0.150	<2	<2	6k	2.40	100	1
MAY	0.11)	0.150	\2	~~	OK	2.10	100	
19	0.076	0.100	60	52	176	48.0	97	6
JUN								
02	0.293	0.332	60k	81	147	2.96	99	8
16	0.435	0.480	140k	160	413	3.23	99	59
JUL								
09	0.783	0.921	1,900k	1,800k	>2,000	3.66	101	31
21	0.594	0.640	220	120	194		99	12

Remark codes used in this table: < -- Less than

 $\begin{tabular}{ll} Value qualifier codes used in this table: \\ k -- Counts outside acceptable range \end{tabular}$

LOCATION.--Lat $46^{\circ}26'21''$, long $96^{\circ}40'43''$ in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 134 N., R. 48 W., Wilkin County, Hydrologic Unit 09020104, on upstream left bank of U.S. Highway 75 bridge.

DRAINAGE AREA.--54 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 2001 through September 2003.

GAGE.--Water stage recorder. Datum of gage is 935 ft above National Geodetic Vertical Datum of 1929. (From Topographic map).

REMARKS .-- Records fair.

 $EXTREMES\ FOR\ PERIOD\ OF\ RECORD.--Maximum\ recorded\ daily\ discharge, 768\ ft^3/s,\ July\ 11,\ 2002;\ minimum\ recorded\ daily\ discharge\ (estimated),\\ 0.53\ ft^3/s\ ,\ Mar.\ 10,\ 2003.$

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												1.4
15												1.5
16												1.7
17												1.6
18												1.6
19												1.5
20												1.7
21												1.7
22												1.8
23												1.8
24												1.9
25												1.8
26												1.6
27												1.9
28												1.7
29												1.7
30												1.8
31												
TOTAL												
MEAN												
MAX												
MIN												
AC-FT												

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	2.0 1.9 1.9 2.0 2.2	36 22 13 21 18	6.7 6.4 5.9 6.4 7.4	e2.9 e2.8 e3.4 e3.6 e3.7	e4.4 e4.5 e4.5 e4.6 e4.7	3.4 2.4 e4.0 e4.0 e4.0	79 56 30 20 16	15 14 12 10 9.6	5.8 5.2 4.8 4.5 4.2	3.4 3.1 3.2 3.4 3.4	3.1 2.9 3.0 3.0 2.9	50 30 19 13 9.8
6 7 8 9 10	2.1 2.1 2.4 2.7 8.0	14 11 9.8 8.3 7.2	7.9 8.2 7.0 5.6 4.8	e3.8 e4.0 e3.8 e4.0 e3.9	e5.8 e6.0 e5.7 e5.2 e5.1	e3.6 e3.3 e2.6 e2.3	17 35 79 68 64	9.2 9.1 38 105 119	3.9 3.6 3.6 3.7 4.0	3.4 5.5 50 36 282	2.5 2.5 2.1 2.3 2.3	7.3 5.6 4.4 3.3 3.2
11 12 13 14 15	12 8.3 4.5 4.1 4.3	6.1 5.3 5.1 4.9 4.6	6.2 8.2 8.0 7.7 7.8	e4.0 e3.9 e4.0 e3.8 e3.7	e7.8 e12 e15 e18 e22	0.55 e0.83 e0.75 e1.3 e0.83	70 52 46 42 35	91 70 52 39 29	3.9 3.6 3.9 3.8 3.6	768 581 457 293 147	2.1 1.8 1.7 1.5 1.6	3.1 2.3 2.7 3.0 3.9
16 17 18 19 20	4.2 4.8 4.9 4.7 5.3	4.3 4.4 4.3 4.1 3.8	9.7 9.6 9.7 7.5 4.5	e3.6 e3.6 e3.5 e3.7 e3.8	9.5 16 e32 e32 e30	e1.3 e1.1 e8.3 35 49	29 26 27 32 27	22 17 14 12 10	3.4 3.4 3.9 4.9	73 42 29 22 15	1.4 1.6 1.7 1.3 1.2	4.3 4.1 3.5 4.3 5.0
21 22 23 24 25	4.2 4.3 4.5 5.2 5.1	4.7 4.5 4.3 4.5 5.0	e3.9 e3.9 e3.4 e3.5 3.5	4.4 e3.8 e3.8 e3.7 e3.8	e28 e26 e22 e17 e15	38 33 34 33 31	24 22 18 15 14	8.4 7.5 6.5 6.3 5.8	5.2 4.3 6.4 8.1 7.0	9.8 8.1 7.3 6.4	1.3 1.4 1.3 1.3 1.2	2.8 2.7 2.5 2.9 3.5
26 27 28 29 30 31	2.0 1.2 1.0 14 19 24	5.1 2.6 1.1 0.97 5.6	e3.3 e3.4 e3.3 e3.7 e3.6 e3.5	e4.0 e4.0 e4.0 e4.0 e4.3 e4.3	4.5 e8.7 e8.7 	35 44 89 126 121 92	12 12 16 16 15	5.4 5.2 4.7 6.3 8.6 6.5	7.9 7.7 6.5 5.2 3.9	5.8 5.4 4.5 4.1 3.7 3.4	1.2 1.0 1.1 111 275 111	4.0 3.4 3.2 2.7 3.5
TOTAL MEAN MAX MIN AC-FT	168.9 5.45 24 1.0 335	245.57 8.19 36 0.97 487	184.2 5.94 9.7 3.3 365	117.6 3.79 4.4 2.8 233	374.7 13.4 32 4.4 743	805.86 26.0 126 0.55 1,600	1,014 33.8 79 12 2,010	768.1 24.8 119 4.7 1,520	152.9 5.10 13 3.4 303	2,890.9 93.3 768 3.1 5,730	549.3 17.7 275 1.0 1,090	213.0 7.10 50 2.3 422

e Estimated

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	4.3 5.4 4.4 6.6 8.2	6.5 6.4 5.8 4.8 4.6	2.7 1.5 2.8 0.93 1.7	e2.1 e1.9 e1.9 e1.8 e1.8	e0.92 e1.00 e1.0 e1.1 e1.2	e0.68 e0.65 e0.64 e0.58 e0.56	e4.6 e4.1 e3.9 e3.9 5.9	10 9.1 8.5 8.8 12	12 11 10 9.8 8.5	229 133 71 35 22	3.3 3.0 2.7 2.7 2.5	1.2 1.2 1.1 0.99 1.3
6 7 8 9 10	11 11 5.9 5.9	4.9 6.2 4.9 4.7 4.9	2.5 2.7 2.2 e2.5 e2.5	e1.8 e1.7 e1.7 e1.6	e1.3 e1.4 e1.4 e1.5	e0.53 e0.53 e0.53 e0.54 e0.53	6.1 5.4 5.2 5.6 6.1	18 25 24 33 64	10 8.3 9.2 13	15 10 9.1 13 128	2.5 2.3 2.3 2.4 2.4	1.2 1.4 1.8 2.2 2.2
11 12 13 14 15	12 14 14 10 10	4.0 5.0 3.9 4.1 3.1	e2.3 e2.4 e2.2 e2.3 e2.3	e1.5 e1.4 e1.3 e1.4 e1.3	e1.5 e1.5 e1.3 e1.4 e1.3	e0.56 e0.54 e0.61 e0.63 e0.65	6.0 6.0 6.5 7.2 7.6	57 57 42 48 52	11 9.0 11 9.2 7.5	224 220 164 90 30	2.2 1.9 1.8 1.7 1.9	2.5 1.9 1.8 2.0 2.7
16 17 18 19 20	11 12 14 15 13	2.8 3.6 5.0 4.7 4.6	e2.3 e2.3 e2.3 e2.3	e1.2 e1.2 e1.2 e1.1 e1.1	e1.3 e1.2 e1.1 e1.1 e0.94	e3.3 e11 e14 e21 e26	16 166 241 234 241	38 33 30 34 63	8.4 30 72 19 12	15 7.9 6.3 6.7 7.7	2.0 1.9 1.8 1.6 1.6	4.6 4.4
21 22 23 24 25	11 11 10 9.4 11	4.8 4.7 4.2 3.0 3.0	e2.3 e2.3 e2.3 2.1 2.1	e1.0 e0.97 e0.98 e0.92 e0.94	e0.83 e0.80 e0.80 e0.77 e0.76	e24 e20 e17 e14 e12	142 94 57 36 26	45 44 37 29 28	6.4 13 21 55 486	7.5 6.8 7.5 6.8 6.0	1.3 1.2 1.4 1.3 1.4	
26 27 28 29 30 31	9.2 8.2 7.9 8.4 8.2 6.4	3.4 3.6 3.0 3.8 3.0	e2.1 e2.3 e2.2 e2.1 e1.9 e2.0	e0.94 e0.98 e0.97 e0.93 e0.94 e0.95	e0.74 e0.74 e0.73	e9.6 e8.0 e6.8 e6.0 e5.5 e4.3	20 16 14 12 11	23 19 17 15 14 13	630 479 622 561 361	5.0 4.6 4.7 4.3 3.7 3.4	1.3 1.3 1.3 1.1 0.88 1.1	
TOTAL MEAN MAX MIN AC-FT	299.4 9.66 15 4.3 594	131.0 4.37 6.5 2.8 260	68.73 2.22 2.8 0.93 136	41.22 1.33 2.1 0.92 82	31.03 1.11 1.5 0.73	211.26 6.81 26 0.53 419	1,410.1 47.0 241 3.9 2,800	950.4 30.7 64 8.5 1,890	3,528.3 118 630 6.4 7,000	1,497.0 48.3 229 3.4 2,970	58.08 1.87 3.3 0.88 115	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 2001 to September 2003.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: April 2002 to September 2003. SPECIFIC CONDUCTANCE: April 2002 to September 2003.

PH: April 2002 to September 2003.
DISSOLVED OXYGEN: April 2002 to September 2003.
TURBIDITY: April 2002 to September 2003.

INSTRUMENTATION .-- Water-quality monitor.

EXTREMES FOR PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: Maximum recorded, 29.4°C, June 30, 2002; minimum recorded, 0.1°C, on many days during winter months. SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 microsiemens, December 4, 2002; minimum recorded, 204 microsiemens, August 29, 2002. PH: Maximum recorded, 8.6 units, May 2, 2002, and August 5, 2002; minimum recorded, 6.8 units, September 8, 2003. DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L, May 25, 2002; minimum recorded, 2.3 mg/L, July 2, 2002 TURBIDITY: Maximum recorded, 1,300 NTU's, June 24-25, 2003; minimum recorded, 7.0 NTU's, September 13, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 THROUGH SEPTEMBER 2001

Date	Time	Instantaneous discharge, cfs (00061)	Tur- bidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	units	con- tan wat uS/ 25 d	ecif. duc- ice, unf /cm legC	Temp ature air, deg	e, C	Temper- ature, water, deg C 00010)	org wa unf mg as	nonia + ;-N, A ter, ltrd g/L N 525)	Ammor water fltrd, mg/L as N (00608	, w un un	nmonia vater, nfltrd ng/L as N 0610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
SEP 2001 13 25	0900 0905	1.8	14 12	7.8 8.3	8.2 8.2		66 78	11.0 9.5		14.9 11.2	0.4		<0.050 <0.050).070).050	<0.050 <0.050	<0.010 <0.010
		Dat	Ort pho pha wai flti mg e as (000	os- nte, F ter, pl rd, w y/L un P n	hos- morus, rater, v nfltrd ng/L 10	E coli, n-TEC MF, vater, col/ 00 mL 31633)	Fed col form M-I 0.7u co 100 (316	li- m, FC MF ll/ mL	Fecal strep- tococc KF MF, col/ 100 m (31673	- ph ci ph pl: t aci L u	loro- yll a yto- ank- on, id m, g/L 2211)	Suspr sedi men siev diam- perce <.063i (7033	i- 1 t, ee etr c ent mm	Sus- pended sedi- ment concen- tration mg/L 80154)	-		
		SEP 20 13 25	0.0		.067 .073	630 330	53 27		385 116		.680 .06	99 96		20 18			

Remark codes used in this table:

< -- Less than

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

									Ammonia			Nitrite	
Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, water, unfltrd field, NTU (61028)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temper- ature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	+ nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 2001													
06	1410	13	10	11.1	7.7	1,000	10.5	6.1	0.73	< 0.050	< 0.050	0.470	< 0.010
DEC 10	1345	4.0	5.0	11.2	7.5	1.020	2.2	0.0	1.6	<0.050	<0.050	0.150	<0.010
JAN 2002	1343	4.0	5.0	11.2	7.5	1,030	-2.3	0.0	1.6	< 0.050	< 0.050	0.150	< 0.010
14	1425	3.9	8.0	10.6	7.6	918	2.0	-0.3	0.36	0.070	0.080	0.300	< 0.010
FEB													
11	1300	3.5	28	10.1	7.6	720	11.8	-0.2	0.42	0.080	0.220	0.370	< 0.010
MAR 18	1305	0.95	20	10.6	7.3	543	-3.5	-0.3	1.1	0.200	0.200	1.20	0.050
APR	1303	0.73	20	10.0	1.5	575	-3.3	-0.5	1.1	0.200	0.200	1.20	0.050
15	1430	33	41	8.9	7.6	700	22.8	13.3	1.6	0.070	0.070	0.520	0.020
MAY		4.5		40.0	0.0	4.040	40.5			0.050	0.050	4.40	0.000
13 JUN	1545	46	44	12.3	8.0	1,040	18.5	12.4	1.4	< 0.050	< 0.050	1.40	0.030
03	1230	4.8	20	8.4	8.2	917	20.0	16.5	0.89	< 0.050	< 0.050	< 0.050	< 0.010
24	1330	8.2	52	5.0	7.9	723	35.0	25.6	0.96	0.140	0.150	0.130	0.020
JUL													
08	1710	58	280	5.4	7.5	432	29.5	25.5	2.0	0.080	0.090	0.900	0.060
22	1305	9.2	35	5.4	7.7	948	21.5	23.0	1.5	0.140	0.190	0.260	0.060
AUG 05	1250	2.7	21	6.7	8.0	788	28.0	21.0	0.70	0.070	0.070	0.170	0.010
19	1220	1.1	9.0	7.7	7.9	697	24.5	17.0	0.70	< 0.050	< 0.050	0.060	< 0.010
SEP	1220		7.0	,.,		0,,	2	1710	0.07	10.020	10.000	0.000	10.010
09	1345	3.2	20	5.3	7.7	746	21.4	23.2	0.75	< 0.050	< 0.050	0.210	0.020
23	1335	2.4	18	8.6	8.0	722	10.6	11.9	0.45	< 0.050	< 0.050	0.110	< 0.010

Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	Chloro- phyll a phyto- plank- ton, acid m, ug/L (32211)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
NOV 2001								
06	0.148	0.191	92k	660	94k	3.75	33	12
DEC								
10	0.021	0.042				1.03	62	54
JAN 2002								
14	0.033	0.055				0.870	88	23
FEB	0.040	0.074				1 11		
11 MAR	0.040	0.074				1.11		
18	0.212	0.286				1.17	99	29
APR	0.212	0.200				1.17	,,,	2)
15	0.088	0.187	82k	32k	183	9.25	99	45
MAY								
13	0.066	0.127	50k	43k	144	5.89	99	33
JUN								
03	0.034	0.085	140k	88	168	6.37	100	20
24	0.087	0.168	330k	260k	640	5.21	100	39
JUL								
08	0.249	0.698	3,200	4,000	8,900	12.7	94	43
22	0.253	0.399	400k		166	5.67	99	76
AUG	0.004	0.105	1.001	01	260	2.16	100	47
05 19	$0.084 \\ 0.052$	0.195 0.100	100k 27k	9k 33	360 368	3.16 1.42	100 99	47 39
SEP	0.032	0.100	2/K	33	308	1.42	99	39
09	0.233	0.303	100	92	700	3.88	99	36
23	0.233	0.084	160	440	184	2.10	100	19
	0.010	0.001	100	. 10	101		100	

Remark codes used in this table:

< -- Less than

Value qualifier codes used in this table: k -- Counts outside acceptable range

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	₹	N	OVEMBE	R	Ε	ECEMBE	R		JANUARY	7
1 2												
3												
4 5												
6 7												
8												
9 10												
11 12												
13												
14 15												
16 17												
18												
19												
20												
21 22												
23												
24												
25												
26												
27 28												
29												
30 31												
MONTH												
MONIA												
		FEBRUAR			MARCH			APRIL			MAY	
1		FEBRUAR 	Y 		MARCH			APRIL		11.7	MAY 9.2	10.1
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4	 	FEBRUAR 	Y 	 	MARCH	 	 	APRIL 	 	11.7 10.5 13.2 13.6	MAY 9.2 6.2 8.0 10.6	10.1 8.5 10.5 12.4
1 2 3 4 5	 	FEBRUAR 	Y	 	MARCH	 	 	APRIL 	 	11.7 10.5 13.2 13.6 13.1	9.2 6.2 8.0 10.6 9.8	10.1 8.5 10.5 12.4 11.1
1 2 3 4 5		FEBRUAR	Y	 	MARCH	 	 	APRIL	 	11.7 10.5 13.2 13.6 13.1	MAY 9.2 6.2 8.0 10.6 9.8	10.1 8.5 10.5 12.4 11.1
1 2 3 4 5		FEBRUAR 	Y 	 	MARCH	 	 	APRIL	 	11.7 10.5 13.2 13.6 13.1	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8	10.1 8.5 10.5 12.4 11.1 10.0 8.5
1 2 3 4 5 6 7 8 9		FEBRUAR	Y		MARCH	 	 	APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1
1 2 3 4 5 6 7 8 9	 	FEBRUAR	Y 	 	MARCH		 	APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7
1 2 3 4 5 6 7 8 9 10		FEBRUAR	Y		MARCH	 	 	APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7
1 2 3 4 5 6 7 8 9 10		FEBRUAR	Y		MARCH		 	APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUAR	Y		MARCH		 	APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR	Y		MARCH			APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR	Y		MARCH			APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR	Y		MARCH			APRIL		11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		FEBRUAR	Y		MARCH		 18.5 18.0 15.8 8.9	APRIL	 16.3 15.8 12.6 6.8	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2	APRIL	 16.3 15.8 12.6 6.8 7.0	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 13.6 12.3 12.1 12.8 14.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2	APRIL	 16.3 15.8 12.6 6.8 7.0	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0	9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUAR	Y		MARCH		 18.5 18.0 15.8 8.9 9.2 9.2 7.9	APRIL	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.5 13.8
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2 7.9 13.1	APRIL	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.4 15.5 13.8 11.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		FEBRUAR	Y		MARCH		18.5 18.8 15.8 8.9 9.2 9.2 7.9 13.1 13.1 8.3	APRIL	16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0 16.5 13.2	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.5 13.8 11.0 13.9
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2 7.9 13.1 13.1 8.3	APRIL	 16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0 16.7 16.5 13.2 15.7	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.4 15.5 13.8 11.0 13.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUAR	Y		MARCH		18.5 18.8 15.8 8.9 9.2 9.2 7.9 13.1 13.1 8.3	APRIL	16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8 5.5 5.8	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0 16.7 16.5 13.2 15.7	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.5 13.8 11.0 13.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2 7.9 13.1 13.1 8.3 7.1 7.1 6.1 10.0	APRIL	16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8 5.5 5.8 5.1	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0 16.5 13.2 15.7	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8 18.8 20.0	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.5 13.8 11.0 13.9 16.3 17.9 20.7 21.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2 7.9 13.1 13.1 8.3 7.1 7.1 6.1	APRIL	16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8 5.5 5.8	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0 16.7 16.5 13.2 15.7	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8 18.8 20.0 20.3	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.4 15.5 13.8 11.0 13.9 16.3 17.9 20.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		FEBRUAR	Y		MARCH		18.5 18.0 15.8 8.9 9.2 7.9 13.1 13.1 8.3 7.1 7.1 6.1 10.0 12.2	APRIL	16.3 15.8 12.6 6.8 7.0 7.7 6.6 9.1 10.7 5.8 5.5 5.8 5.1 7.3 10.2	11.7 10.5 13.2 13.6 13.1 11.1 10.4 7.4 5.8 10.4 10.4 12.2 15.0 16.0 17.5 16.4 13.4 14.3 15.0 16.6 17.0 16.5 13.2 15.7	MAY 9.2 6.2 8.0 10.6 9.8 9.0 7.3 5.8 4.5 4.4 9.4 8.2 10.0 11.6 13.9 11.8 10.7 9.8 10.2 11.4 13.1 14.0 10.7 8.8 12.5 15.2 15.8 18.8 20.0	10.1 8.5 10.5 12.4 11.1 10.0 8.5 6.2 5.1 6.7 9.8 9.8 12.2 13.8 15.6 12.3 12.1 12.8 14.1 15.5 13.8 11.0 13.9 16.3 17.9 20.7 21.7 21.9

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	ЕРТЕМВІ	ER
1	22.6	20.6	21.6	28.9	25.8	27.4	26.0	23.2	24.3	23.4	21.5	22.5
2	21.0	17.3	19.3	27.5	25.2	26.2	23.2	20.3	21.8	23.2	21.7	22.2
3	17.3	13.2	16.4	26.9	24.0	25.5	22.0	20.6	21.1	21.9	19.0	20.6
4	18.9	14.8	16.7	25.7	23.6	24.2	22.7	20.0	21.3	21.8	20.1	21.0
5	21.0	16.6	18.6	26.4	22.8	24.5	23.0	20.2	21.7	22.8	21.1	21.9
6	22.0	18.5	20.1	28.4	25.4	26.8	22.4	20.4	21.1	24.3	22.1	23.1
7	21.7	19.6	20.6	28.0	23.9	26.2	23.2	20.1	21.5	25.3	23.7	24.5
8	21.0	18.3	19.8	26.0	22.6	24.1	25.3	22.6	23.8	25.5	24.0	24.8
9	21.6	19.9	20.7	26.8	24.1	25.6	24.8	23.5	24.1	25.0	21.5	23.2
10	22.5	21.6	22.0	26.5	19.7	22.3	23.9	21.6	22.7	21.5	19.0	20.0
11	22.2	19.8	21.2	21.6	18.7	19.9	24.3	20.9	22.6	20.3	18.3	19.4
12	21.9	20.1	20.6	24.1	20.4	21.9	23.6	21.8	22.4	20.4	18.5	19.5
13	20.2	18.2	18.9	25.6	22.5	23.9	21.8	19.6	20.9	20.3	19.2	19.8
14	19.9	16.8	18.4	26.5	23.6	25.0	21.2	19.9	20.4	19.9	17.9	19.0
15	21.4	18.8	20.1	27.0	24.5	25.8	21.2	19.9	20.6	17.9	16.3	17.0
16	21.8	19.7	20.8	28.3	25.1	26.5	20.8	18.9	19.5	17.6	15.5	16.5
17	22.7	20.4	21.4	28.1	26.1	27.2	19.3	17.7	18.7	19.1	16.9	17.8
18	22.5	20.7	21.5	27.4	24.8	26.3	18.7	16.4	17.8	20.5	18.2	19.2
19	23.7	21.4	22.2	28.1	25.5	26.9	19.7	16.5	18.2	19.8	18.1	18.7
20	22.6	20.6	21.5	28.2	26.5	27.4	19.5	18.1	18.6	18.1	16.0	16.6
21	21.5	20.7	20.9	28.2	26.1	27.3	19.5	18.8	19.1	16.0	14.7	15.2
22	23.3	20.3	21.5	26.1	21.9	23.7	20.8	19.1	19.9	14.7	12.6	13.5
23	25.6	22.8	24.1	21.9	19.8	20.3	22.2	19.7	21.0	12.6	11.5	12.2
24	27.4	24.4	25.8	21.6	19.2	20.3	23.3	20.6	22.0	11.5	10.5	11.0
25	28.0	26.2	27.2	24.5	21.1	22.6	24.1	21.5	22.8	11.2	10.5	10.8
26 27 28 29 30 31	27.6 27.9 28.4 29.1 29.4	25.6 25.5 25.8 26.0 27.1	26.7 26.7 27.1 27.5 28.2	26.7 26.8 26.3 24.8 26.5 26.5	23.5 24.8 23.2 21.6 23.7 23.8	25.0 25.9 24.8 23.2 25.0 25.2	25.0 24.6 24.4 23.4 21.5 23.1	22.5 22.7 23.0 20.7 20.6 20.4	23.7 23.7 23.6 22.1 21.0 21.5	10.9 11.3 11.1 11.7 13.4	9.9 9.4 10.4 10.8 11.5	10.4 10.4 10.8 11.2 12.4
MONTH	29.4	13.2	21.9	28.9	18.7	24.7	26.0	16.4	21.4	25.5	9.4	17.5
YEAR	29.4	3.9	18.8									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	3	N	OVEMBE	R	D	ECEMBE	R		JANUARY	7
1												
2 3												
4												
5												
6												
7 8												
9												
10												
11												
12												
13 14												
15												
16												
17												
18 19												
20												
21												
22												
23												
24 25												
26 27												
28												
29												
30 31												
MONTH												
MONTH												
		EEDDIIAD:	3.7		MADOU			A DDII			3.6.37	
		FEBRUAR	Y		MARCH			APRIL			MAY	
1										971	953	961
2				 		 	 		 	990	953 971	980
2 3 4	 	 	 		 	 	 	 		990 1,020 1,000	953 971 970 964	980 992 985
2 3	 	 								990 1,020	953 971 970	980 992
2 3 4 5	 	 		 	 	 	 	 	 	990 1,020 1,000 982 979	953 971 970 964 959	980 992 985 973
2 3 4 5 6 7	 	 			 	 	 	 		990 1,020 1,000 982 979 987	953 971 970 964 959 957 930	980 992 985 973 968 959
2 3 4 5 6 7 8 9	 	 		 	 	 	 	 	 	990 1,020 1,000 982 979	953 971 970 964 959	980 992 985 973 968 959 934 902
2 3 4 5 6 7 8	 			 	 		 	 	 	990 1,020 1,000 982 979 987 1,000	953 971 970 964 959 957 930 818	980 992 985 973 968 959 934
2 3 4 5 6 7 8 9 10	 		 	 			 		 	990 1,020 1,000 982 979 987 1,000 946 1,050	953 971 970 964 959 957 930 818 841 946	980 992 985 973 968 959 934 902 1,020
2 3 4 5 6 7 8 9 10							 	 	 	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020	953 971 970 964 959 957 930 818 841 946	980 992 985 973 968 959 934 902 1,020 1,000 984
2 3 4 5 6 7 8 9 10 11 12 13 14	 				 		 	 	 	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080	953 971 970 964 959 957 930 818 841 946 945 945 1,020 1,050	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070
2 3 4 5 6 7 8 9 10 11 12 13								 		990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050	953 971 970 964 959 957 930 818 841 946 945 954 1,020	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040
2 3 4 5 6 7 8 9 10 11 12 13 14 15			 				 748		 725	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15							 748 783	 700 748	 725	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,080	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15							 748 783 839	 700 748 776	 725 767 806	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,080 1,080	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,070 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15							 748 783	 700 748	 725	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,080 1,080	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							 748 783 839 854 861	 700 748 776 816 854	 725 767 806 836 857	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,080 1,090 1,090	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,080 1,070 1,070 1,070 1,060	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							 748 783 839 854 861 880 894		 725 767 806 836 857 871	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,080 1,090 1,090 1,090 1,090	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,070 1,060 1,060 1,060 1,070	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,080 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							 748 783 839 854 861 880 894 914		 725 767 806 836 857 871 887 904	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,070 1,060 1,060 1,060 1,070 1,060	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,080 1,080 1,080 1,070 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							 748 783 839 854 861 880 894		 725 767 806 836 857 871	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,080 1,090 1,090 1,090 1,090	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,070 1,060 1,060 1,060 1,070	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,080 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25							748 783 839 854 861 880 894 914 925 934		 725 767 806 836 857 871 887 904 914 925	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,090 1,070 1,080 1,080 1,090	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,060 1,060 1,070 1,060 1,020 1,010	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,080 1,070 1,080 1,070 1,080
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27									 	990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,070 1,080 1,080 1,090 1,070 1,080 1,020 1,020 1,020 1,010	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,070 1,060 1,060 1,060 1,060 1,020 1,010 1,010 981	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,080 1,070 1,080 1,070 1,070 1,080 1,070 1,070 1,070 1,080 1,070
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28										990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,070 1,080 1,080 1,090 1,090 1,070 1,080 1,090 1,070 1,080 1,090 1,070 1,080 1,090 1,070 1,080 1,010 1,010 1,010	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,060 1,060 1,060 1,060 1,060 1,070 1,060 1,010 1,010 981 969	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,070
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29										990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,090 1,070 1,080 1,060 1,020 1,020 1,010 1,010 1,010 976	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,070 1,060 1,060 1,060 1,010 1,010 981 969 940	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,070 1,080 1,070
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28										990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,070 1,080 1,080 1,090 1,090 1,070 1,080 1,090 1,070 1,080 1,090 1,070 1,080 1,090 1,070 1,080 1,010 1,010 1,010	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,060 1,060 1,060 1,060 1,060 1,070 1,060 1,010 1,010 981 969	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,070
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30										990 1,020 1,000 982 979 987 1,000 946 1,050 1,040 1,020 1,050 1,080 1,090 1,090 1,090 1,090 1,090 1,070 1,080 1,060 1,020 1,020 1,010 1,010 976 940	953 971 970 964 959 957 930 818 841 946 945 954 1,020 1,050 1,070 1,070 1,070 1,060 1,060 1,060 1,010 1,010 981 969 940 855	980 992 985 973 968 959 934 902 1,020 1,000 984 1,040 1,070 1,080 1,080 1,080 1,070 1,070 1,070 1,070 1,070 1,010 994 990 992 982 880

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	•	Sl	ЕРТЕМВЕ	i.R
1	903	872	887	865	830	850	924	896	915	408	327	367
2	917	819	871	843	809	829	896	856	869	480	408	445
3	926	884	904	810	798	802	869	831	841	534	480	502
4	896	872	882	800	772	783	852	819	834	587	534	557
5	921	873	897	787	756	770	838	809	815	639	587	608
6	922	885	905	766	746	755	813	787	795	696	639	665
7	885	846	863	777	527	728	815	797	806	723	696	709
8	875	816	845	626	401	488	817	765	797	738	723	731
9	853	800	829	584	540	570	778	763	775	784	738	745
10	817	786	804	588	232	409	766	753	761	748	727	740
11	808	769	788	333	285	299	753	729	744	772	695	721
12	818	770	798	423	313	374	746	718	725	717	694	705
13	807	775	790	474	423	451	727	714	720	760	711	722
14	775	728	752	512	474	490	730	720	726	729	713	718
15	744	711	727	575	512	541	738	715	720	714	695	707
16	790	729	758	666	575	622	752	709	717	695	683	690
17	823	742	767	761	666	712	721	691	700	731	667	681
18	745	661	711	851	761	801	734	653	694	685	670	679
19	751	661	687	916	851	893	692	684	688	691	673	686
20	730	573	653	954	916	941	731	684	695	673	644	654
21	706	552	632	977	953	966	690	680	685	670	641	647
22	799	706	749	988	965	976	697	680	691	708	659	691
23	804	705	753	988	969	976	696	684	690	721	669	690
24	864	700	751	990	965	973	720	684	693	670	660	665
25	892	848	871	979	970	973	696	690	694	683	664	671
26 27 28 29 30 31	895 924 924 883 864	824 895 853 847 852	854 907 876 862 857	978 950 941 936 929 931	948 925 897 891 900 900	966 933 919 910 918 916	695 696 714 685 233 327	690 689 683 204 208 233	692 692 691 529 219 273	692 684 677 683 698	681 669 666 665 676	685 678 670 674 681
MONTH	926	552	808	990	232	759	924	204	706	784	327	659
YEAR	1,090	204	797									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	DBER	NOVE	MBER	DECE	MBER	JANU	ARY	FEBR	UARY	MAF	RCH
1 2												
3												
4 5												
6												
7												
8 9												
10												
11												
12 13												
14												
15												
16 17												
18												
19												
20												
21 22												
23												
24 25												
26 27												
28												
29 30												
31												
MONTH												
	API	RIL	M	AY	JU	NE	JUI	LY	AUG	UST	SEPTE	MBER
1			8.5	8.4	8.2	8.1	8.0	7.9	8.3	8.2	7.7	7.6
2			8.5 8.6	8.4 8.4	8.2 8.2	8.1 8.1	8.0 8.0	7.9 7.9	8.3 8.3	8.2 8.2	7.7 7.8	7.6 7.7
2 3 4	 	 	8.5 8.6 8.5 8.5	8.4 8.4 8.4 8.3	8.2 8.2 8.3 8.3	8.1 8.1 8.2 8.2	8.0 8.0 7.9 7.9	7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4	8.2 8.2 8.3 8.3	7.7 7.8 7.9 7.9	7.6 7.7 7.8 7.9
2 3 4 5	 	 	8.5 8.6 8.5 8.5 8.5	8.4 8.4 8.4 8.3 8.3	8.2 8.2 8.3 8.3	8.1 8.1 8.2 8.2 8.2	8.0 8.0 7.9 7.9 8.0	7.9 7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4 8.6	8.2 8.2 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0	7.6 7.7 7.8 7.9 7.9
2 3 4 5	 	 	8.5 8.6 8.5 8.5 8.5	8.4 8.4 8.4 8.3 8.3	8.2 8.2 8.3 8.3 8.3	8.1 8.1 8.2 8.2 8.2 8.2	8.0 8.0 7.9 7.9 8.0	7.9 7.9 7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4 8.6	8.2 8.2 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0	7.6 7.7 7.8 7.9 7.9
2 3 4 5 6 7 8	 	 	8.5 8.6 8.5 8.5 8.5 8.4 8.4	8.4 8.4 8.4 8.3 8.3	8.2 8.2 8.3 8.3	8.1 8.1 8.2 8.2 8.2	8.0 8.0 7.9 7.9 8.0	7.9 7.9 7.9 7.9 7.9	8.3 8.3 8.4 8.4 8.6	8.2 8.2 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0	7.6 7.7 7.8 7.9 7.9
2 3 4 5 6 7 8 9			8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0	8.2 8.2 8.3 8.3 8.3 8.2 8.2 8.2	8.1 8.2 8.2 8.2 8.2 8.1 8.1 8.0 8.0	8.0 8.0 7.9 7.9 8.0 8.0 7.9 7.9	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7	8.3 8.4 8.4 8.6 8.5 8.5 8.5	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.4	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.0
2 3 4 5 6 7 8 9			8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.0 8.0	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9	8.0 7.9 7.9 8.0 8.0 7.9 7.9 7.7 7.8	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.0 8.1
2 3 4 5 6 7 8 9 10			8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0	8.1 8.2 8.2 8.2 8.2 8.1 8.1 8.0 7.9 7.8 7.9	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.1
2 3 4 5 6 7 8 9 10			8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.0 8.1 8.2	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.0 8.1 8.2	8.1 8.2 8.2 8.2 8.1 8.1 8.0 7.9 7.8 7.9 8.0	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4 7.5	7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.0 8.1
2 3 4 5 6 7 8 9 10			8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0	8.1 8.2 8.2 8.2 8.2 8.1 8.1 8.0 7.9 7.8 7.9	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.0 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15			8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.1 8.2 8.2	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.1 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4 7.5 7.5 7.6	7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4	8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 8.2 8.3	 8.1 8.2	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.1 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7	7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 8.2 8.3 8.3	 8.1 8.2 8.2	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.1 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.3 8.3	8.1 8.2 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4 7.5 7.6 7.7	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 8.2 8.3	 8.1 8.2	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.1 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3	8.1 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7	7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	8.2 8.3 8.4 8.4	 8.1 8.2 8.2 8.3 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3	8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.3 8.3 8.3 8.3	8.1 8.2 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.7	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4 7.5 7.6 7.7 7.7 7.8 7.8 7.9	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.2 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 8.2 8.3 8.3 8.4 8.4 8.4	8.1 8.2 8.2 8.3 8.4 8.4 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.1	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.2 8.3 8.3 8.3 8.3	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.7 7.7	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.4 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.5 8.5	8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 8.2 8.3 8.3 8.4 8.4 8.4 8.4	 8.1 8.2 8.2 8.3 8.4 8.4 8.3 8.3 8.3	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.0 8.0 8.1 8.2 8.2 8.3 8.3 8.2 8.1 8.0 8.1	8.1 8.2 8.2 8.2 8.1 8.1 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.7 7.9 8.0	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.0 8.0	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8 8.0 8.0	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5	8.1 8.2 8.3 8.4 8.3 8.3 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.0 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.1 8.0	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.3 8.3 8.3 8.1 8.0 8.1 7.8 7.9 8.0 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.0 8.0 7.9	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.0 8.1 8.2	7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8 7.9 8.0 8.0 8.1	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.5 8.5 8.5 8.5	8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5	8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.2 8.3 8.3 8.3 8.2 8.1 8.0 8.1 8.1 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 7.9 8.0 8.0 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.0 8.1 8.2	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8 8.0 8.0 8.1 8.1	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.3 8.3 8.3 8.3	8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.1 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.3	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.3 8.3 8.2 8.1 8.0 8.1 7.8 7.9 8.0 8.1 8.1 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.7 7.7 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.1 8.2 8.2 8.1	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.9 8.0 8.1 8.1 8.1	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.3 8.3 8.3 8.3 8.3	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	 8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.4 8.3 8.3 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.3 8.3 8.3 8.1 7.8 7.9 8.0 8.1 8.1 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.7 7.7 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.7 7.8 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.0 8.1 8.2 8.2 8.2 8.2	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3	8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.1 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.3	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.3 8.3 8.2 8.1 8.0 8.1 7.8 7.9 8.0 8.1 8.1 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.7 7.7 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.1 8.2 8.2 8.1	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.9 8.0 8.1 8.1 8.1	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.3 8.3 8.3 8.3 8.3	8.2 8.2 8.3 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8.2 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5	8.1 8.2 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.1 8.1 8.0 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.0 8.0 8.0 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.2 8.3 8.3 8.3 8.1 8.1 8.1 8.1 8.1 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.0 8.0 7.9 8.0 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.8 7.5 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1	8.3 8.4 8.4 8.5 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	8.2 8.3 8.3 8.4 8.4 8.4 8.4 8.5 8.5 8.5 8.5	8.1 8.2 8.2 8.3 8.4 8.4 8.4 8.4 8.3 8.4 8.4	8.5 8.6 8.5 8.5 8.5 8.4 8.4 8.1 8.1 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	8.4 8.4 8.3 8.3 8.3 8.3 8.1 8.0 8.0 8.0 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.0 8.1 8.2 8.3 8.3 8.2 8.1 7.8 7.9 8.0 8.1 8.1 8.1	8.1 8.2 8.2 8.2 8.1 8.0 8.0 7.9 7.8 7.9 8.0 8.1 8.1 8.1 8.1 8.0 7.8 7.7 7.7 7.9 8.0 8.0 8.0 7.9	8.0 7.9 7.9 7.9 8.0 8.0 7.9 7.7 7.7 7.8 7.5 7.6 7.7 7.7 7.8 7.8 7.9 8.0 8.1 8.2 8.2 8.2 8.3	7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.8 7.6 7.7 7.4 7.4 7.4 7.4 7.5 7.5 7.6 7.7 7.8 7.8 7.8 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2	8.3 8.4 8.4 8.6 8.5 8.5 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.5 8.3 8.3 8.3 8.3 7.5 7.6	8.2 8.2 8.3 8.3 8.4 8.4 8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	7.6 7.7 7.8 7.9 7.9 7.9 8.0 8.1 8.1 8.1 8.1 8.1 8.2 8.2 8.2 8.2 8.3 8.3 8.3 8.3 8.3 8.3

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBE	₹	N	OVEMBE	R	D	ECEMBE	R		JANUARY	•
1												
2 3												
4												
5												
6 7												
8												
9 10												
11 12												
13												
14 15												
16 17												
18												
19 20												
21 22												
23												
24 25												
26												
27												
28												
29 30												
31												
MONTH												
	F	FEBRUAR	Y		MARCH			APRIL			MAY	
1		FEBRUAR 	Y		MARCH			APRIL			MAY	
2												
2 3								 				
2 3 4 5	 	 	 	 	 	 		 		 	 	
2 3 4 5 6 7	 	 		 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8 9	 	 	 	 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8	 			 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8 9 10		 		 	 	 	 	 	 	 	 	
2 3 4 5 6 7 8 9 10	 	 		 	 		 	 	 	 		
2 3 4 5 6 7 8 9 10 11 12 13 14		 		 	 					 11.5	 9.1	 10.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15		 		 						 11.5	 9.1 8.6	 10.1 9.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15							 9.5			 11.5 11.6	 9.1 8.6 8.8	 10.1 9.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15									 9.0 9.6	 11.5	 9.1 8.6 8.8 9.9	 10.1 9.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							 9.5 11.0 11.5 14.3	 8.3 8.6 9.9 11.5	9.0 9.6 10.3 13.2	 11.5 11.6 13.1 13.5 14.8	 9.1 8.6 8.8 9.9 10.3 10.2	 10.1 9.9 10.7 11.5 12.2 12.1
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							9.5 11.0 11.5 14.3 15.2	8.3 8.6 9.9 11.5	9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.6 14.8	 9.1 8.6 8.8 9.9 10.3 10.2 9.7	 10.1 9.9 10.7 11.5 12.2 12.1 11.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21							9.5 11.5 14.3 15.2	 8.3 8.6 9.9 11.5 13.8	9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.8	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9	 10.1 9.9 10.7 11.5 12.2 12.1 11.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							9.5 11.0 11.5 14.3 15.2	 8.3 8.6 9.9 11.5 13.8	9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.8 14.8 13.7 13.8	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 11.6 10.9
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24							 9.5 11.0 11.5 14.3 15.2	 8.3 8.6 9.9 11.5 13.8	9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.8 14.8 13.7 13.8 16.5	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2 11.3	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 11.6 10.9 10.7 13.7
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							9.5 11.0 11.5 14.8 15.6	 8.3 8.6 9.9 11.5 13.8 13.0 14.2	9.0 9.6 10.3 13.7 14.7	 11.5 11.6 13.1 13.5 14.8 14.8 14.8 13.7 13.8	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2 11.3 10.7	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 10.7 13.7 13.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27							9.5 11.0 11.5 14.3 15.2 14.8 15.6	8.3 8.6 9.9 11.5 13.8 13.0	9.0 9.6 10.3 13.7 14.5	 11.5 11.6 13.1 13.5 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2 11.3 10.7	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 11.6 10.9 10.7 13.7 13.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28							9.5 11.0 11.5 14.3 15.2 14.8 15.6	8.3 8.6 9.9 11.5 13.8 13.0	9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.6 14.8 14.8 13.7 13.8 16.5 15.0	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2 11.3 10.7	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 11.6 10.9 10.7 13.7 13.0
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30							9.5 11.0 11.5 14.3 15.2 14.8 15.6	8.3 8.6 9.9 11.5 13.8 13.0	9.0 9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.8 14.8 14.8 13.7 13.8 16.5 15.0 13.6 14.0 11.8 10.7 10.9	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2 11.3 10.7 9.3 9.3 8.3 7.6 6.6	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 11.6 10.9 10.7 13.7 13.0 11.6 11.6 10.2 9.0 8.5
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29							9.5 11.0 11.5 14.3 15.2 14.8	8.3 8.6 9.9 11.5 13.8 13.0	9.0 9.6 10.3 13.2 14.5	 11.5 11.6 13.1 13.5 14.8 14.6 14.8 14.8 13.7 13.8 16.5 15.0 13.6 14.0 11.8	 9.1 8.6 8.8 9.9 10.3 10.2 9.7 8.9 8.5 8.2 11.3 10.7 9.3 8.3 7.6	 10.1 9.9 10.7 11.5 12.2 12.1 11.9 11.6 10.9 10.7 13.7 13.0 11.6 11.6 11.6 11.2 9.0

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		S	ЕРТЕМВЕ	ER
1	10.4	7.3	8.7	4.2	3.3	3.7	6.6	5.3	5.9	5.3	4.9	5.2
2	8.9	7.6	8.3	3.6	2.3	3.0	7.3	5.9	6.5	6.1	5.3	5.6
3	10.3	8.4	9.3	3.8	2.6	3.2	6.8	6.6	6.6	6.5	6.1	6.3
4	12.1	9.3	10.3	4.1	3.0	3.5	7.6	6.4	7.0	6.5	6.3	6.4
5	10.6	8.9	9.6	4.6	3.4	4.0	7.1	6.5	6.9	6.5	5.9	6.2
6	9.4	7.8	8.5	4.5	3.3	3.8	7.0	6.1	6.5	6.0	5.4	5.8
7	9.3	6.7	7.8	5.6	2.3	3.3	7.6	6.5	7.0	5.6	5.1	5.4
8	8.8	6.6	7.8	6.2	5.1	5.5	7.2	6.0	6.6	5.7	5.0	5.2
9	8.5	5.8	6.4	5.1	5.0	5.0	6.6	5.4	6.1	5.5	4.8	5.1
10	5.9	4.8	5.2	6.1	4.8	5.3	6.7	5.7	6.2	6.3	5.3	5.8
11	7.1	4.1	5.5	5.2	4.8	5.0	7.3	5.9	6.5	6.8	5.9	6.3
12	7.6	5.5	6.4	4.8	3.9	4.4	6.8	5.7	6.3	6.8	6.2	6.4
13	8.4	6.0	7.2	3.9	3.3	3.6	7.6	5.7	6.7	6.7	5.9	6.2
14	10.6	7.6	8.8	3.8	2.9	3.3	7.4	6.4	6.8	6.8	6.0	6.3
15	10.3	7.8	9.0	4.5	2.9	3.6	7.7	6.3	7.0	7.0	6.2	6.6
16	9.9	7.7	8.6	4.9	3.4	4.0	8.0	6.5	7.1	7.3	6.5	6.9
17	9.1	6.5	8.1	4.8	3.7	4.1	8.7	7.4	8.0	7.2	6.7	6.9
18	8.2	6.3	7.5	4.5	4.2	4.3	9.5	7.7	8.5	6.8	5.9	6.5
19	7.3	6.6	7.0	4.6	4.3	4.4	8.9	8.1	8.4	6.4	5.6	6.0
20	8.0	6.4	7.5	4.6	4.0	4.3	8.2	7.0	7.5	7.7	5.8	7.3
21	7.1	6.4	6.7	4.9	4.0	4.7	7.6	6.7	7.0	8.2	7.4	7.7
22	8.0	6.6	7.2	5.8	4.9	5.4	7.6	6.4	7.0	8.3	7.6	7.9
23	7.5	6.9	7.1	6.6	5.8	6.3	7.5	6.3	6.9	8.6	8.2	8.4
24	7.5	6.3	6.8	6.9	6.5	6.7	7.4	6.1	6.8	9.1	8.2	8.7
25	7.0	5.4	6.0	6.6	5.9	6.4	7.2	6.0	6.6	9.4	8.7	9.2
26 27 28 29 30 31	6.3 6.6 6.1 5.8 5.3	5.5 5.6 5.1 4.7 4.2	5.8 6.1 5.6 5.2 4.8	6.0 5.8 5.7 6.3 6.3	5.5 5.4 5.3 5.5 5.6 5.5	5.9 5.6 5.5 5.9 5.9 5.8	6.9 6.7 6.5 6.4 4.3 4.9	5.6 5.4 5.3 3.6 3.7 4.3	6.3 6.1 6.1 5.0 4.0 4.7	10.1 10.2 9.7 9.5 8.9	9.2 9.5 9.2 8.5 8.3	9.5 9.9 9.4 9.1 8.6
MONTH	12.1	4.1	7.3	6.9	2.3	4.7	9.5	3.6	6.6	10.2	4.8	7.0
YEAR	16.5	2.3	7.2									

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	R	Б	DECEMBE	R		JANUARY	ľ
1 2												
3												
4												
5												
6												
7												
8 9												
10												
11												
11 12												
13												
14												
15												
16												
17												
18 19												
20												
21												
22												
23												
24												
25												
26												
27												
28 29												
30												
31												
MONTH												
		PEDDILABA	7		MADOIL			4 DDII			3.5.4.37	
		FEBRUARY	7		MARCH			APRIL			MAY	
1		FEBRUARY	<i></i>		MARCH			APRIL			MAY	e190
2												e160
2 3					 						 	e160 e110
2												e160
2 3 4 5	 	 	 	 	 	 	 	 	 	 	 	e160 e110 e94 e87
2 3 4 5	 	 	 		 		 	 	 		 	e160 e110 e94 e87
2 3 4 5 6 7 8	 	 	 	 	 	 	 	 	 	 	 	e160 e110 e94 e87
2 3 4 5 6 7 8 9	 	 		 		 	 	 	 	 	 	e160 e110 e94 e87 e97 e110 e120 e130
2 3 4 5 6 7 8	 	 		 	 		 		 	 	 	e160 e110 e94 e87 e97 e110 e120
2 3 4 5 6 7 8 9	 	 		 		 	 	 	 	 	 	e160 e110 e94 e87 e97 e110 e120 e130
2 3 4 5 6 7 8 9 10												e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86
2 3 4 5 6 7 8 9 10 11 12 13		 		 								e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69
2 3 4 5 6 7 8 9 10												e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86
2 3 4 5 6 7 8 9 10 11 12 13 14 15										 44 38	23 20	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27
2 3 4 5 6 7 8 9 10 11 12 13 14 15		 							 41	 44 38 31	 23 20	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27
2 3 4 5 6 7 8 9 10 11 12 13 14 15							 48 48 62	 34 36 39	 41 42 49	 44 38 31 25 24	 23 20 19 16 15	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18							 48 48 62 93	 34 36 39 49	 41 42 49 70	 44 38 31 25 24 820	 23 20 19 16 15 17	e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20							 48 48 62 93 54	 34 36 39 49 38	 41 42 49	 44 38 31 25 24 820 830	 23 20 19 16 15 17 20	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21							 48 48 62 93 54	 34 36 39 49 38 39	 41 42 49 70 47	 44 38 31 25 24 820 830 350	 23 20 19 16 15 17 20 22	e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							 48 48 62 93 54 49 52	 34 36 39 49 38 39	 41 42 49 70 47 44 48	 44 38 31 25 24 820 830 350 210	 23 20 19 16 15 17 20 22 34	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23							 48 48 62 93 54 49 52 63	 34 36 39 49 38 39 44 45	 41 42 49 70 47 44 48 55	 44 38 31 25 24 820 830 350 210 140	 23 20 19 16 15 17 20 22 34 48	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22							 48 48 62 93 54 49 52	 34 36 39 49 38 39	 41 42 49 70 47 44 48	 44 38 31 25 24 820 830 350 210	 23 20 19 16 15 17 20 22 34	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25								 34 36 39 49 38 39 44 45 53 110	 41 42 49 70 47 44 48 55 81 160	 44 38 31 25 24 820 830 350 210 140 79 290	 23 20 19 16 15 17 20 22 34 48 45 58	e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26							 48 48 62 93 54 49 52 63 110	 34 36 39 49 38 39 44 45 53	 	 44 38 31 25 24 820 830 350 210 140 79	 23 20 19 16 15 17 20 22 34 48 45	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28										 44 38 31 25 24 820 830 350 210 140 79 290	 23 20 19 16 15 17 20 22 34 48 45 58	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240 e210
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29										 44 38 31 25 24 820 830 350 210 140 79 290 350 	 23 20 19 16 15 17 20 22 34 48 45 58	e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240 e210 e210 e150
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30										 44 38 31 25 24 820 830 350 210 140 79 290 290 350	 23 20 19 16 15 17 20 22 34 48 45 58	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 e240 e210 e150 e150 e110
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31										 44 38 31 25 24 820 830 350 210 140 79 290 350 	 23 20 19 16 15 17 20 22 34 48 45 58 91 140	e160 e110 e94 e87 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 240 e210 e150 e110 e150 e110 e120 e130 e140
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30										 44 38 31 25 24 820 830 350 210 140 79 290 290 350	 23 20 19 16 15 17 20 22 34 48 45 58	e160 e110 e94 e87 e97 e110 e120 e130 e140 e99 e86 e69 32 27 26 21 20 170 160 97 61 68 60 92 140 e240 e210 e150 e150 e110

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2001 THROUGH SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		SI	ЕРТЕМВЕ	ER
1 2 3 4 5	 25 27	 14 14	e63 e31 e22 18 20	65 62 71 63 74	53 50 50 53 47	58 56 59 60 60	66 79 39 49 40	21 14 14 21 25	39 53 23 30 31	130 69 52 44 39	69 43 35 30 27	100 58 44 38 34
6 7 8 9 10	25 21 31 23 20	16 14 16 13 11	20 16 21 17 14	74 350 740 510 890	40 41 160 160 160	50 85 340 260 400	41 44 34 32 30	26 23 20 20 21	33 33 27 26 26	29 27 33 28 50	24 22 20 21 20	27 24 25 23 29
11 12 13 14 15	16 27 22 28 25	9.4 12 12 11 12	12 16 16 15 17	300 110 46 84 98	110 46 39 41 34	190 66 43 47 45	33 30 30 28 29	20 18 18 18 18	26 24 24 23 24	46 45 44 40 31	20 18 22 21 21	30 29 29 30 25
16 17 18 19 20	35 47 47 120 75	12 11 16 17 24	16 17 20 32 49	160 220 150 250 110	37 55 54 69 57	70 130 83 140 72	38 43 28 25 26	17 26 15 18 20	23 31 22 22 23	39 40 28 31 38	22 21 17 19 27	29 28 22 24 31
21 22 23 24 25	76 52 59 53 62	44 32 32 26 26	53 40 40 36 47	94 67 69 61 60	54 51 49 43 40	65 61 58 51 49	30 27 28 26 22	19 19 19 16 15	24 23 23 21 18	36 35 37 38 26	23 19 20 24 21	28 27 29 27 24
26 27 28 29 30 31	62 87 100 120 67	38 44 64 57 51	47 62 85 83 57	54 52 48 100 74 44	38 38 32 32 33 20	46 44 40 54 49 34	20 21 33 710 450 230	13 12 12 15 230 130	17 16 16 220 320 180	27 32 35 34 36	18 19 17 17 18	23 24 25 27 26
MONTH	120	9.4	33	890	20	92	710	12	46	130	17	31
YEAR	890	9.4	68									

e Estimated

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

	Tur-		Γur- pH, Specif.			Ammonia +				Nitrite			
Date	Time	Instantaneous discharge, cfs (00061)	bidity, water, unfltrd field, NTU	Dis- solved oxygen, mg/L (00300)	water, unfltrd field, std units	conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT 2002 07	1200	10	16	10.6	7.8	700	15.6	7.7	0.29	< 0.050	< 0.050	< 0.050	< 0.010
NOV 04 DEC	1330	4.5	12	13.4	7.8	1,000	5.5	0.1	0.52	< 0.050	< 0.050	< 0.050	< 0.010
09 JAN 2003	1315	2.5	5.0	10.7	7.5	932	0.5	0.0	0.32	< 0.050	< 0.050	0.120	< 0.010
13 FEB	1335	1.3	12	11.7	7.0	928	-17.0	-3.0		< 0.050	0.050	0.270	< 0.010
10 MAR	1430	1.5	4.2	8.2	7.1	864	-14.3	-0.3	0.28	0.090	0.090	0.260	< 0.010
24 APR	1245	14	20	11.5	7.5	597	13.4	0.1	1.4	0.310	0.320	0.690	0.040
14 MAY	1315	6.8	20	9.1	8.0	822	21.0	15.0		< 0.050	< 0.050	0.060	< 0.050
19 JUN	1440	28	55	8.3	8.0	1,150	11.5	14.7	1.4	< 0.050	< 0.050	0.420	< 0.010
02 16 JUL	1315 1310	11 8.8	52 110	6.8 5.2	8.2 8.2	1,070 939	21.0 30.0	18.2 24.0	1.4	0.050	0.060	0.160	<0.010
09 21 AUG	1420 1400	15 8.2	120 50	6.2 5.7	7.6 7.9	939 986	19.6 22.2	20.8 23.6	1.5 1.2	0.070 <0.050	0.140 <0.050	0.290 0.200	0.040 0.020
05 19 SEP	1010 1400	2.5 1.6	21 12	5.6 4.9	8.0 7.7	803 734	26.5 34.3	22.5 27.1	0.56 0.58	0.050 0.060	<0.050 0.070	0.090 <0.050	<0.010 <0.010
03 18	1500 0930	1.0 2.3	16 21	7.1 6.6	7.9 7.6	715 665	21.5 9.0	18.7 15.8	0.53 0.58	<0.050 0.060	<0.050 0.100	<0.050 0.380	<0.010 <0.010
		Date	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Fecal strep- tococci KF MF, col/ 100 mL (31673)	phy phy pla to acic ug	nk- n, l m,	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)		
		CT 2002 07 OV	0.025	0.062	140	140	31k	4.:	34	99	13		
		04 EC	0.016	0.038	8k	41	21	1.	15	86	44		
		09 AN 2003	0.014	0.028				0	530	93	16		
	FI	13 EB	0.018	0.034				1.	11	78	94		
	M	10 [AR	0.027	0.042				-	-				
	A	24 PR	0.119	0.206					51	99	29		
	M	14 [AY	0.030	0.090	62 88	48	400		15	99 99	107		
	JŲ	19 JN 02	0.058 0.117	0.128 0.206	80k	180 120	490 310			99 97	34 58		
		02 16 JL			E700k	140	357	5.5	93	100	66		
		09 21 UG	0.249 0.166	0.370 0.251	>1,600 230	>1,200 160	>2,000 367		14 65	100 100	69 42		
		05 19 EP	0.083 0.110	0.137 0.154	160 120	270 250	233 >1,000k		94 54	100 94	31 15		
		03 18	0.094 0.102	0.153 0.186	300 800	170 7,900k	263 8,000k		88	99 100	19 33		

Remark codes used in this table: < -- Less than E -- Estimated value

Value qualifier codes used in this table:

> -- Greater than

k -- Counts outside acceptable range

TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBEI	R	I	DECEMBE	R		JANUARY	
1 2 3 4 5	13.3 12.4 10.8 10.0 9.5	12.4 10.8 9.7 9.4 8.9	12.9 11.7 10 9.7 9.3	0.7 0.7 0.5 0.6 0.6	0.4 0.3 0.3 0.3 0.4	0.5 0.5 0.4 0.4 0.5	0.4 0.3 0.2 0.2 0.1	0.1 0.1 0.1 0.1 0.1	0.2 0.2 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1
6 7 8 9 10	9.3 8.6 9.2 8.3 9.1	8.6 7.4 8.2 7.5 7.7	8.9 8.0 8.8 8.0 8.1	0.8 1.3 2.2 2.6 2.1	0.3 0.5 1.0 1.3 1.2	0.6 0.9 1.6 1.9 1.8	0.2 0.2 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.2 0.1 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1
11 12 13 14 15	10.7 10.8 9.3 7.6 7.3	9.1 9.3 6.8 5.9 6.3	9.9 10.1 7.7 6.7 6.9	1.2 0.7 0.5 0.5 0.5	0.5 0.4 0.3 0.2 0.2	0.7 0.5 0.4 0.3 0.3	0.2 0.2 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1
16 17 18 19 20	6.3 5.7 5.1 4.8 4.0	5.5 5.1 4.8 4.0 3.1	6.1 5.4 4.9 4.4 3.4	0.4 0.6 0.5 0.5 0.6	0.2 0.2 0.2 0.2 0.2	0.3 0.4 0.3 0.3 0.4	0.2 0.1 0.1 0.2 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1
21 22 23 24 25	3.1 2.9 2.9 2.3 2.1	2.3 2.2 2.2 1.6 1.6	2.6 2.6 2.4 1.9 1.8	0.7 1.0 0.8 0.4 0.4	0.4 0.7 0.4 0.3 0.2	0.6 0.8 0.6 0.3 0.3	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1
26 27 28 29 30 31	2.8 3.3 4.1 4.1 3.3 1.0	1.9 2.4 3.2 3.3 1.0 0.4	2.3 2.9 3.6 3.9 2.2 0.6	0.3 0.3 0.4 0.4 0.3	0.2 0.1 0.1 0.1 0.1	0.2 0.2 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1 0.1
MONTH	13.3	0.4	6.1	2.6	0.1	0.6	0.4	0.1	0.1	0.1	0.1	0.1
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	 	 	 	 	 	 	15.0 15.4 15.5 15.7 12.0	11.4 11.6 12.6 12.0 10.2	13.3 13.7 14.2 13.9 10.7
6 7 8 9 10	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1	 	 	 	 	 	 	10.4 14.5 15.0 14.9	9.5 9.2 13.7 11.2	9.9 11.2 14.3 12.4
11 12 13 14 15	 	 	 	 	 	 	 14.6	 12.7	 13.7	 	 	
16 17 18 19 20	 	 	 	 	 	 	12.7 5.5 5.6 5.3 5.7	5.5 1.7 3.9 4.2 4.7	9.9 3.4 4.8 4.7 5.0	 	 	
21 22 23 24 25	 	 	 	 	 	 	9.7 12.3 13.5 14.7 15.8	4.6 7.5 9.8 11.6 12.4	6.5 9.7 11.5 13.0 13.9	19.2 19.1 17.5 18.9	14.1 16.0 15.0 13.6	16.1 17.2 15.8 15.6
26 27 28 29 30 31	 	 	 	 	 	 	16.4 16.8 16.3 13.7 14.0	12.9 13.9 11.5 11.3 10.3	14.7 15.5 13.3 12.2 12.0	19.8 19.8 20.8 21.0 21.0 17.6	16.0 17.2 17.1 18.3 16.0 13.9	18.0 18.4 18.7 19.7 18.5 15.4
MONTH	0.1	0.1	0.1				16.8	1.7	10.2	21.0	9.2	15.1

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	•	SI	ЕРТЕМВІ	ER
1 2 3 4 5	19.7 19.7 18.2 18.6 19.5	16.5 18.0 16.2 16.8 17.8	17.9 18.7 17.4 17.8 18.7	25.7 26.8 27.7 27.6 27.0	22.5 24.1 24.4 23.7 23.5	23.9 25.3 26.0 25.4 25.3	23.5 23.4 23.2 23.9	21.2 20.9 21.0 21.4	22.5 22.2 22.2 22.6	18.9 19.6 19.0 18.7 19.7	17.8 17.8 17.4 16.4 16.6	18.4 18.6 18.2 17.5 17.9
6 7 8 9 10	19.5 18.4 18.5 20.1 20.1	18.3 17.3 16.8 17.4 18.3	18.8 17.7 17.5 18.3 18.9	27.6 27.2 25.1 24.1 19.2	25.1 23.8 22.7 19.2 16.8	26.5 25.2 23.9 21.5 17.8	24.9 24.9 24.9 24.7 24.7	22.4 22.4 22.8 22.4 21.5	23.7 23.7 24.0 23.1 23.0	21.0 21.7 21.3 20.6 19.6	17.8 18.9 19.3 19.0 18.8	19.2 20.2 20.3 19.5 19.1
11 12 13 14 15	20.9 22.3 23.7 24.3 25.6	17.6 19.7 21.2 22.0 23.0	19.0 20.9 22.5 23.3 24.2	20.3 22.6 24.9 26.0 25.9	17.9 19.0 21.1 23.1 22.7	18.9 20.4 22.6 24.4 24.2	25.2 25.2 24.7 25.3 26.0	22.3 22.4 22.2 22.7 23.5	23.8 23.9 23.6 24.1 24.8	19.6 18.5 18.4 17.6 16.2	18.2 17.1 17.0 15.6 14.5	18.8 17.9 17.8 16.5 15.3
16 17 18 19 20	25.2 26.5 25.1 24.7 24.4	23.9 23.5 21.6 21.1 21.0	24.4 24.5 23.2 23.0 22.8	26.8 26.8 24.4 26.1 26.9	22.7 23.5 21.5 23.7 25.3	24.6 24.7 23.0 24.8 26.0	26.2 26.6 27.9 27.9 27.0	23.9 23.7 25.2 25.8 25.6	25.2 25.2 26.4 26.9 26.4	17.4 18.3 	15.3 16.9 	16.0 17.8
21 22 23 24 25	23.6 22.9 22.8 22.8 22.5	20.7 20.4 20.4 20.2 18.3	21.8 21.5 21.5 21.9 19.6	25.5 23.8 24.3 24.9 23.9	22.8 21.4 21.4 21.6 22.7	23.9 22.6 22.8 23.1 23.2	26.1 23.9 24.4 24.8 25.3	23.6 21.6 21.9 23.4 22.9	24.6 22.7 23.1 24.0 24.0	 	 	
26 27 28 29 30 31	18.3 19.4 20.0 22.6 24.5	16.1 17.0 16.4 19.3 20.9	17.2 18.0 17.9 20.5 22.4	24.6 23.9 24.9 25.2 24.9 24.0	22.5 21.9 21.3 22.1 22.5 21.9	23.5 23.0 23.0 23.7 23.7 23.1	25.1 23.7 23.0 21.9 19.8 20.1	23.1 21.4 21.2 19.7 17.7 17.1	24.0 22.2 21.9 20.6 18.8 18.5	 	 	
MONTH	26.5	16.1	20.4	27.7	16.8	23.5	27.9	17.1	23.4	21.7	14.5	18.2
YEAR	27.9	0.1	11.0									

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	R		DECEMBE	R		JANUARY	
1 2 3 4 5	738 738 693 674 675	700 688 673 659 652	717 709 683 667 662	962 980 953 964 963	861 894 902 921 914	886 925 925 940 927	922 926 1,260 1,300 1,150	891 879 893 1,150 1,050	909 888 1,040 1,230 1,100	765 782 809 787 767	755 764 782 767 759	762 770 798 778 763
6 7 8 9 10	662 658 695 732 724	622 637 658 694 718	646 648 683 720 720	933 932 874 874 840	915 863 778 783 813	921 897 839 846 828	1,050 961 933 922 895	961 915 906 887 859	1,000 929 917 900 879	759 788 763 752 754	755 749 749 746 744	757 756 751 748 747
11 12 13 14 15	751 756 760 762 763	723 749 756 755 753	740 752 758 758 756	834 903 873 879 882	812 834 803 827 840	825 869 831 855 862	859 852 851 813 797	840 838 811 792 779	849 847 833 803 789	777 826 911 903 890	754 777 826 888 868	764 797 880 891 881
16 17 18 19 20	767 755 741 735 730	755 738 725 725 708	764 748 734 728 720	915 963 1,040 955 935	877 913 955 924 879	893 933 1,000 934 910	792 797 815 784 784	778 780 774 771 763	781 789 787 777 774	868 843 817 820 813	843 817 813 813 802	853 834 815 816 808
21 22 23 24 25	718 742 763 761 772	708 715 740 748 758	714 734 752 757 766	882 875 832 887 923	871 832 822 829 874	876 851 825 840 900	763 772 786 802 829	752 752 769 781 801	755 764 780 791 812	802 812 818 824 826	794 793 812 816 818	797 801 816 821 824
26 27 28 29 30 31	776 789 784 800 823 861	768 768 773 784 797 823	771 777 779 792 808 837	988 940 1,020 1,060 967	867 867 940 962 913	935 911 991 1,030 945	844 825 833 822 793 767	825 818 821 789 767 752	835 820 827 805 779 758	818 813 805 774 768 762	812 805 774 761 761 748	815 811 791 765 766 755
MONTH	861	622	735	1,060	778	898	1,300	752	856	911	744	798
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	748 742 800 794 844	734 734 742 768 782	740 736 775 779 826	 	 	 	 	 	 	993 997 992 1,000 993	970 961 960 962 964	986 981 978 983 979
6 7 8 9 10	817 857 856 832	803 817 832 802	811 841 850 809	 	 	 	 	 	 	1,030 1,060 1,070 1,120	961 1,010 1,060 1,010	994 1,030 1,070 1,070
11 12 13 14 15	 	 	 	 	 	 	 827	 794	 820	 	 	
16 17 18 19 20	 	 	 	 	 	 	925 1,060 720 865 844	768 576 673 685 736	812 784 694 766 796	 	 	
21 22 23 24 25	 	 	 	 	 	 	931 969 1,010 1,010 1,010	844 931 969 1,010 1,010	888 949 993 1,010 1,010	1,120 1,120 1,130 1,120	1,060 1,090 1,120 1,070	1,100 1,110 1,120 1,090
26 27 28 29 30 31	 	 	 	 	 	 	1,010 1,010 1,010 1,010 998	1,000 1,000 994 996 986	1,000 1,000 1,000 1,000 995	1,110 1,100 1,100 1,100 1,100 1,090	1,090 1,090 1,090 1,080 1,060 1,060	1,100 1,100 1,100 1,090 1,080 1,080
MONTH	857	734	796				1,060	576	907	1,130	960	1,050

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		Sl	ЕРТЕМВЕ	R
1 2 3 4 5	1,060 1,050 1,070 1,070 1,050	1,030 1,030 1,030 1,010 996	1,050 1,040 1,060 1,050 1,020	637 716 803 865 915	552 637 716 801 865	591 677 761 831 893	829 818 813 803	818 809 800 794	824 812 804 798	670 673 667 664 666	666 667 566 662 651	668 669 657 663 662
6 7 8 9 10	1,080 1,070 992 1,020 962	992 983 940 896 858	1,030 1,030 968 984 929	952 970 982 1,000 946	915 948 968 875 585	932 954 974 949 733	790 776 762 758 750	772 759 751 745 694	780 766 756 754 742	670 681 683 695 696	661 669 667 682 679	665 675 680 686 685
11 12 13 14 15	982 961 957 964 970	937 922 908 915 922	963 942 932 936 941	695 677 738 816 881	640 647 677 738 816	675 657 710 775 848	738 724 720 725 718	717 713 713 715 715	725 717 716 720 717	687 689 695 689 690	682 685 664 605 664	685 687 683 677 668
16 17 18 19 20	1,040 1,030 867 869 903	951 512 487 841 843	980 921 669 855 863	939 969 993 1,050 1,020	881 939 969 976 989	907 948 977 1,000 1,000	721 724 722 714 712	717 718 711 709 708	718 721 718 712 710	672 680 	664 638 	666 672
21 22 23 24 25	916 1,040 1,030 980 499	702 695 895 416 211	906 958 935 760 382	1,020 1,010 1,010 994 996	975 956 951 939 936	994 983 982 970 954	708 705 701 698 710	703 698 692 661 667	704 701 698 691 692	 	 	
26 27 28 29 30 31	485 501 454 491 552	429 416 373 413 491	453 482 403 440 518	936 927 912 901 882 859	915 895 895 873 851 829	921 907 904 887 871 847	694 692 690 681 674 671	676 680 678 673 653 657	689 687 685 675 670 667	 	 	
MONTH	1,080	211	847	1,050	552	871	829	653	726	696	566	673
YEAR	1,300	211	830									

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTO	OBER	NOVE	MBER	DECE	MBER	JANU	JARY	FEBRU	UARY	MAI	RCH
1 2 3 4 5	8.3 8.3 8.3 8.3 8.2	8.2 8.2 8.2 8.2 8.1	8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.1 8.1 8.1	8.1 8.1 8.1 8.0 7.9	8.0 8.0 8.0 7.9 7.9	7.9 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.9 7.9	7.9 7.9 7.9 8.0 8.0	7.8 7.9 7.9 7.9 7.9	 	
6 7 8 9	8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.2 8.2 8.1	8.2 8.2 8.2 8.1 8.1	8.1 8.1 8.1 8.0 8.0	7.9 7.8 7.8 8.0 8.0	7.8 7.8 7.8 7.8 8.0	7.9 7.9 8.0 8.0 8.0	7.9 7.9 7.9 7.9 7.9	7.9 7.9 7.9 7.9	7.9 7.9 7.9 7.9	 	
11 12 13 14 15	8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.1 8.2 8.1	8.2 8.2 8.2 8.2 8.1	8.1 8.1 8.1 8.1 8.1	8.0 8.0 8.0 8.0	7.9 8.0 8.0 8.0 8.0	8.0 8.0 7.9 8.0 7.9	7.9 7.9 7.9 7.9 7.9	 	 	 	
16 17 18 19 20	8.1 8.2 8.2 8.2 8.3	8.1 8.1 8.1 8.1 8.2	8.1 8.1 8.1 8.1	8.1 8.0 8.0 8.0 8.1	8.0 8.0 8.0 8.0	8.0 8.0 8.0 8.0	7.9 7.9 7.9 7.9 7.9	7.9 7.9 7.9 7.9 7.9	 	 	 	
21 22 23 24 25	8.3 8.3 8.3 8.3 8.3	8.2 8.2 8.2 8.3 8.2	8.1 8.2 8.2 8.2 8.2	8.1 8.1 8.2 8.2 8.1	8.0 8.0 8.0 8.0	8.0 8.0 8.0 8.0 7.9	7.9 7.8 7.8 7.8 7.8	7.8 7.8 7.8 7.8 7.8	 	 	 	
26 27 28 29 30 31	8.2 8.2 8.2 8.2 8.2 8.2	8.2 8.1 8.2 8.1 8.1 8.2	8.2 8.2 8.1 8.1	8.1 8.0 8.0 8.0	7.9 7.9 7.9 7.9 7.9 7.9	7.8 7.8 7.8 7.8 7.8 7.8	7.8 7.8 7.8 7.8 7.8 7.9	7.8 7.8 7.8 7.8 7.8 7.8	 	 	 	
MONTH	8.3	8.1	8.2	8.0	8.1	7.8	8.0	7.8	8.0	7.8		
	API	RIL	MA	AY	JU	NE	JU	LY	AUG	UST	SEPTE	MBER
1 2 3 4 5	API 	RIL 	8.3 8.4 8.4 8.3 8.2	8.1 8.1 8.1 8.0 8.0	8.3 8.3 8.3 8.3 8.3	8.2 8.2 8.2 8.2 8.2 8.2	JU. 7.6 7.6 7.7 7.7	7.5 7.5 7.6 7.6 7.7	8.1 8.1 8.1 8.1	8.0 8.0 8.1 8.0	8.1 8.1 8.2 8.2 8.2	7.9 8.0 7.8 7.8 7.8 7.3
1 2 3 4	 	 	8.3 8.4 8.4 8.3	8.1 8.1 8.1 8.0	8.3 8.3 8.3 8.3	8.2 8.2 8.2 8.2	7.6 7.6 7.6 7.7	7.5 7.5 7.6 7.6	8.1 8.1 8.1 8.1	8.0 8.0 8.1 8.0	8.1 8.1 8.2 8.2	7.9 8.0 7.8 7.8
1 2 3 4 5 6 7 8 9	 	 	8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.1	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.2 8.3	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.6 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.9	7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.8 7.8	8.1 8.1 8.1 8.1 8.0 8.0 8.1	8.0 8.1 8.0 8.0 7.9 7.9 8.0	8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14	 		8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.1 	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0	8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.2 8.3	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.1 8.0	7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.6 7.6 7.7	7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6	8.1 8.1 8.1 8.1 8.1 8.0 8.0 8.1 8.1 8.1 8.1	8.0 8.0 8.1 8.0 8.0 7.9 7.9 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.7 7.8 7.8	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 8.3 8.3 8.1 7.7	 8.2 8.1 7.7 7.7	8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.1 	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 	8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.1 8.1 8.2	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.5 7.5	7.6 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.6 7.7 7.8 7.8 7.9 7.9 8.0	7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.7 7.8 7.9	8.1 8.1 8.1 8.1 8.0 8.0 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0	8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	 8.3 8.3 8.1 7.7 7.7 7.7 7.8 7.8 7.9	 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.8 7.8 7.9	8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.1 8.3 8.3 8.2 8.2 8.2 8.2 8.2	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1	8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.3 8.2 8.3 8.2 8.1 8.1 8.1 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.3	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.5 7.5 7.9 8.0 8.0 7.9 7.6	7.6 7.6 7.6 7.7 7.7 7.8 7.8 7.9 7.9 7.6 7.7 7.8 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1	7.5 7.5 7.6 7.6 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.0 8.0 8.0 8.0	8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 7.7 7.8 8.1 8.1 8.1 8.1 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6 7.7 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	 8.3 8.3 8.1 7.7 7.7 7.7 7.8 7.9 7.9 8.0 8.0 8.0 8.1 8.2 8.2	 8.2 8.1 7.7 7.7 7.7 7.7 7.7 7.7 7.9 8.0 8.0 8.1 8.1	8.3 8.4 8.4 8.3 8.2 8.2 8.2 8.1 8.3 8.3 8.2 8.2 8.2 8.3	8.1 8.1 8.0 8.0 8.0 8.0 8.1 8.0 8.1 8.1 8.1 8.1 8.1	8.3 8.3 8.3 8.3 8.3 8.2 8.3 8.2 8.2 8.1 8.1 8.2 8.1 8.2 8.1 8.2 8.1 7.9 8.0 8.1 8.2 8.7 7.5 7.5 7.5	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.1 8.1 8.0 8.0 7.5 7.5 7.9 8.0 8.0 7.9 7.6 7.3 7.4 7.4 7.4	7.6 7.6 7.6 7.7 7.7 7.8 7.8 7.8 7.9 7.9 7.6 7.7 7.8 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.1 8.1	7.5 7.5 7.6 7.6 7.7 7.7 7.7 7.8 7.8 7.6 7.6 7.6 7.6 7.7 7.8 7.9 7.9 8.0 8.0 8.1 8.1 8.1 8.0 8.0 8.0	8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.1 8.1 8.1 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.0 8.0 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 7.9 7.7 7.8 8.1 8.1 8.1 7.7 8.0 7.8 8.1 8.1 8.1 8.0 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	8.1 8.1 8.2 8.2 8.2 8.0 7.9 7.8 7.7 7.8 7.8 7.8 7.8 7.8 7.8	7.9 8.0 7.8 7.8 7.3 7.1 7.2 6.8 7.5 7.7 7.6 7.7 7.6

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			OVEMBE			ECEMBE			JANUARY	
1 2 3 4 5	8.3 8.1 8.8 9.3 8.6	7.7 7.6 8.1 8.3 8.2	8.0 7.9 8.5 8.8 8.4	14.3 14.7 14.5 14.5 14.5	13.0 13.1 13.2 13.2 13.4	13.7 13.8 13.8 13.8 14.0	14.0 14.8 15.2 13.3 12.7	13.5 13.7 13.3 12.7 12.0	13.7 14.1 14.2 13.1 12.2	12.2 12.1 12.6 12.5 12.1	10.9 10.9 11.2 11.2 11.0	11.5 11.4 11.8 11.8 11.6
6 7 8 9 10	9.6 10.2 10.0 9.7 9.5	8.6 8.9 9.3 9.2 8.6	9.1 9.6 9.8 9.4 8.9	14.2 14.6 14.0 13.3 13.4	13.4 13.5 12.8 12.6 12.5	13.8 13.9 13.6 12.9 12.9	12.2 12.2 11.8 11.9 12.0	11.9 11.6 11.4 11.4 11.3	12.1 11.9 11.6 11.7 11.6	11.9 12.0 12.8 13.6 13.6	11.1 11.1 11.1 11.4 11.5	11.5 11.5 11.8 12.3 12.4
11 12 13 14 15	8.7 8.1 9.7 10.3 9.9	7.7 7.1 7.5 9.1 8.4	8.0 7.5 8.2 9.7 8.8	14.0 14.5 14.4 14.4 15.0	12.8 13.3 13.6 13.7 13.9	13.5 13.9 14.0 14.1 14.5	12.2 12.6 12.7 12.8 13.2	11.4 11.8 12.1 12.0 11.9	11.9 12.2 12.4 12.5 12.6	13.2 13.1 12.9 13.1 11.6	11.5 11.8 12.2 11.6 10.4	12.2 12.2 12.6 12.5 11.2
16 17 18 19 20	9.0 9.8 10.3 10.6 11.7	8.6 8.8 9.5 9.9 10.3	8.8 9.5 10 10.3 10.8	15.3 14.6 14.6 14.4 14.5	14.1 14.0 13.5 13.4 13.5	14.6 14.4 14.0 13.9 13.9	13.4 13.0 12.6 11.8 11.9	12.1 12.2 11.6 11.3 11.3	12.8 12.6 11.9 11.6 11.6	10.4 10.3 10.2 9.6 9.2	10.0 9.7 9.3 8.9 8.5	10.3 10.1 9.7 9.2 8.8
21 22 23 24 25	12.2 12.7 12.9 12.9 13.4	11.1 11.6 11.6 12.0 12.2	11.6 12.1 12.3 12.5 12.7	14.1 14.0 14.3 14.2 14.2	13.2 13.1 13.4 13.6 13.8	13.7 13.5 13.9 13.9 13.9	11.5 11.8 12.0 12.1 12.3	11.0 11.1 11.4 11.6 11.8	11.3 11.4 11.7 11.8 12.0	8.9 8.8 8.7 8.8 8.8	8.1 8.2 7.9 8.0 8.3	8.5 8.5 8.3 8.3 8.5
26 27 28 29 30 31	12.9 12.8 12.5 11.8 12.6 14.3	11.9 11.6 11.2 10.6 11.2 12.1	12.6 12.1 11.9 11.3 11.9 13.4	14.9 15.5 15.0 14.9 14.5	14.1 14.0 13.8 13.6 13.3	14.5 14.6 14.4 14.3 13.9	12.3 12.2 12.1 11.8 11.6 12.1	12.0 11.6 11.2 11.1 10.8 10.7	12.1 11.9 11.6 11.4 11.2 11.3	8.7 8.6 8.4 8.1 8.3 8.3	8.3 8.2 7.9 7.6 8.0 8.0	8.4 8.4 8.1 7.8 8.1 8.1
												10.2
MONTH	14.3	7.1	10.1	15.5	12.5	13.9	15.2	10.7	12.1	13.6	7.6	10.2
]	FEBRUARY	7		MARCH			APRIL			MAY	
MONTH 1 2 3 4 5				15.5		13.9 	15.2		12.1 	13.6 13.5 14.4 13.9 12.9 12.3		11.6 11.7 11.5 9.9 10.5
1 2 3 4	8.3 8.3 8.6 9.4	7.7 7.9 7.8 8.4	8.0 8.1 8.2 8.9	 	MARCH	 	 	APRIL 	 	13.5 14.4 13.9 12.9	9.6 9.2 8.9 8.2	11.6 11.7 11.5 9.9
1 2 3 4 5 6 7 8 9	8.3 8.3 8.6 9.4 10.0 8.9 9.4 10.0 10.2	7.7 7.9 7.8 8.4 8.9 8.3 8.1 9.1	8.0 8.1 8.2 8.9 9.6 8.6 8.7 9.5 9.7	 	MARCH			APRIL	 	13.5 14.4 13.9 12.9 12.3 13.0 11.9 10.3	9.6 9.2 8.9 8.2 9.3 10.1 10.2 9.0 9.3	11.6 11.7 11.5 9.9 10.5 11.1 11.3 10.2 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.3 8.6 9.4 10.0 8.9 9.4 10.0 10.2	7.7 7.9 7.8 8.4 8.9 8.3 8.1 9.1 9.4	8.0 8.1 8.2 8.9 9.6 8.6 8.7 9.5 9.7	 	MARCH			APRIL		13.5 14.4 13.9 12.9 12.3 13.0 11.9 10.3	9.6 9.2 8.9 8.2 9.3 10.1 10.2 9.0 9.3	11.6 11.7 11.5 9.9 10.5 11.1 11.3 10.2 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.3 8.3 8.6 9.4 10.0 8.9 9.4 10.0 10.2	7.7 7.9 7.8 8.4 8.9 8.3 8.1 9.1 9.4	8.0 8.1 8.2 8.9 9.6 8.6 8.7 9.5 9.7 	 	MARCH		 10.1 10.7 11.4 10.0 10.0	APRIL 8.7 8.6 10.0 9.4 9.8	 9.5 9.6 10.8 9.8 9.9	13.5 14.4 13.9 12.9 12.3 12.3 13.0 11.9 10.3 	MAY 9.6 9.2 8.9 8.2 9.3 10.1 10.2 9.0 9.3	11.6 11.7 11.5 9.9 10.5 11.1 11.3 10.2 9.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.3 8.3 8.6 9.4 10.0 8.9 9.4 10.0 10.2 	7.7 7.9 7.8 8.4 8.9 8.3 8.1 9.1 9.4	8.0 8.1 8.2 8.9 9.6 8.6 8.7 9.5 9.7 		MARCH			APRIL 8.7 8.6 10.0 9.4 9.8 9.9 9.4 8.7 8.4 8.3	 9.5 9.6 10.8 9.9 10 9.9 9.1 8.7 8.6	13.5 14.4 13.9 12.9 12.3 12.3 13.0 11.9 10.3 	MAY 9.6 9.2 8.9 8.2 9.3 10.1 10.2 9.0 9.3 8.6 7.9 8.0	11.6 11.7 11.5 9.9 10.5 11.1 11.3 10.2 9.7

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAW	MAN	MINI	MEAN	MAN	MIN	MEAN	MAN	MINI	MEAN	MAN	MINI	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	,	S	EPTEMBI	ER
1 2 3 4 5	9.1 8.2 8.5 8.5 8.2	8.2 7.3 7.7 7.7 7.4	8.5 7.6 8.1 8.0 7.7	6.2 5.8 6.4 6.3 6.3	4.2 4.2 4.4 4.7 5.3	4.6 4.7 4.8 5.4 5.8	7.6 7.9 7.5 7.7	6.0 6.2 6.2 5.9	6.8 6.9 6.8 6.7	7.0 7.7 7.4 6.7 6.2	6.1 6.3 6.7 5.8 5.2	6.5 7.0 7.1 6.2 5.9
6 7 8 9 10	7.6 7.9 8.1 8.2 8.0	7.1 7.4 7.9 7.6 7.1	7.3 7.6 8.0 7.9 7.4	6.4 6.3 6.8 7.3 7.6	5.5 5.5 5.5 5.7 5.9	5.7 5.8 5.9 6.5 6.6	8.0 8.1 8.4 8.0 9.0	6.1 6.0 5.9 6.5 6.9	7.0 6.9 7.1 7.3 7.8	6.2 5.7 5.4 4.6 4.8	5.4 4.9 3.1 3.2 3.3	5.8 5.4 4.7 4.0 4.1
11 12 13 14 15	8.1 7.8 7.2 7.1 6.9	7.4 6.9 6.6 6.5 6.0	7.8 7.2 6.9 6.8 6.3	7.1 7.0 7.0 6.4 6.8	5.8 5.9 5.6 5.6 6.3	6.3 6.0 6.0 6.6	9.3 9.2 9.6 9.6 9.2	6.7 7.0 7.2 6.7 6.8	7.9 7.9 8.2 8.1 8.0	4.8 5.6 5.8 5.6 6.0	3.8 4.4 4.5 4.0 5.2	4.3 5.0 5.3 4.9 5.6
16 17 18 19 20	7.0 7.0 7.8 8.4 8.5	5.7 5.1 5.1 6.7 7.0	6.3 6.2 5.9 7.3 7.5	7.0 7.1 7.3 7.2 6.6	6.7 6.7 7.0 6.6 6.2	6.8 6.9 7.2 6.9 6.4	8.8 9.0 8.5 8.0 5.1	6.4 5.8 6.1 5.0 3.5	7.6 7.5 7.4 5.8 4.4	6.0 6.1 	4.7 4.7 	5.5 5.5
21 22 23 24 25	8.4 8.5 8.3 8.3 7.1	6.8 6.7 6.5 5.7 5.2	7.2 7.2 6.9 6.8 6.0	6.9 7.4 7.6 7.8 7.6	6.5 6.8 7.0 7.0 6.8	6.7 7.1 7.2 7.3 7.1	5.6 6.3 6.4 6.2 5.6	4.2 4.4 4.2 4.4 4.3	4.9 5.2 5.5 5.2 4.8	 	 	
26 27 28 29 30 31	6.2 6.4 6.5 6.4 5.9	5.5 5.6 5.3 4.7 4.5	5.8 5.8 5.8 5.1 4.8	7.7 7.8 8.1 8.2 7.9 7.5	6.5 6.5 6.6 6.3 6.0	7.0 7.2 7.2 7.2 7.0 6.7	5.7 5.9 6.2 6.2 6.4 6.8	3.9 4.5 4.9 4.9 5.4	4.7 5.2 5.6 5.4 5.7 6.0	 	 	
MONTH	9.1	4.5	6.9	8.2	4.2	6.4	9.6	3.5	6.5	7.7	3.1	5.5
YEAR	15.5	3.1	9.2									

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX		MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBE	ER	D	ECEMBE	R		JANUARY	-
1 2 3 4 5	32 41 65 68 42	16 24 24 23 20	27 31 31 35 27	27 24 23 20 18	16 18 17 12 12	21 21 20 16 14	15 16 53 19 14	12 12 12 14 11	14 13 28 17 12	14 13 16 13 13	8.9 8.8 8.8 8.7 8.7	11 11 11 10 11
6 7 8 9 10	110 45 42 31 37	19 21 23 21 22	43 31 32 25 28	17 17 30 35 24	12 12 12 17 16	14 14 21 27 20	14 12 12 12 16	9.5 9.2 9.0 10 8.9	11 11 10 11 12	15 15 16 15 14	7.8 8.6 8.6 8.5 8.5	11 11 12 11 11
11 12 13 14 15	32 24 30 40 46	19 15 15 18 21	25 21 19 24 32	26 22 27 21 26	16 15 14 12 15	22 18 20 17 18	18 17 18 14 16	8.9 7.9 7.8 8.8 8.7	13 12 12 12 12 13	15 15 14 19 16	9.3 11 9.5 11	11 12 12 13 13
16 17 18 19 20	30 32 42 30 54	19 21 25 23 23	24 25 31 26 30	21 17 17 16 15	13 11 10 12 9.0	17 14 13 14 11	14 15 16 15 14	8.7 9.6 8.6 8.6 8.5	12 12 12 11 10	17 15 18 20 18	11 10 11 13 13	14 12 14 15 15
21 22 23 24 25	33 37 42 66 47	23 27 28 36 29	28 31 33 48 35	14 14 14 18 20	8.1 9.5 10 11 11	12 11 12 13 14	14 19 15 13 14	9.4 8.4 8.4 7.4 8.3	11 12 11 9.9 11	18 18 19 21 19	12 14 13 12 12	14 16 16 17 16
26 27 28 29 30 31	37 35 30 36 24 23	30 26 20 19 17	33 28 25 24 20 20	18 20 17 14 16	11 14 13 8.5 9.9	14 17 15 11 13	16 14 14 14 15 13	8.3 8.2 9.1 9.1 9.0 9.0	12 11 11 11 12 11	21 21 22 23 24 26	14 13 13 14 13 15	17 17 16 17 17
MONTH	110	15	29	35	8.1	16	53	7.4	12	26	7.8	14
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	21 20 26 21 27	15 15 14 16 14	18 18 18 18	 	 	e16 e16 e16 e15 e15	 	 	e23 e23 e23 e23 e23	37 42 36 29 25	26 24 21 22 16	32 32 27 25 20
6 7 8 9 10	23 26 22 21	13 14 15 15	17 17 18 18 18 e17	 	 	e16 e15 e16 e15 e16	 	 	e23 e23 e23 e23 e24	28 64 58 76	19 28 34 35	23 47 45 49 e68
11 12 13 14 15	 	 	e17 e17 e17 e17 e17	 	 	e17 e18 e22 e24 e28	 290	 21	e25 e26 e33 e40 49	 	 	e64 e62 e63 e62 e63
16 17 18 19 20	 	 	e17 e18 e17 e17 e17	 	 	e38 e42 e46 e44 e44	240 710 230 190 190	32 67 140 100 71	57 380 190 120 110	 	 	e67 e69 e67 e67
21 22 23 24 25	 	 	e17 e16 e17 e17 e17	 	 	e41 e42 e39 e37 e32	74 70 81 75 70	60 64 66 54 45	67 68 74 64 59	91 74 72 82	48 56 59 70	e68 68 64 67 77
26 27 28 29 30 31	 	 	e16 e15 e16 	 	 	e30 e26 e27 e26 e23 e23	64 56 49 38 31	41 36 28 27 25	52 45 40 33 29	99 78 72 69 83 62	64 55 57 52 50 46	81 67 63 60 65 54
MONTH	27	13	17			27	710	21	60	99	16	57

TURBIDITY, WATER, UNFILTERED, FIELD, NEPHELOMETRIC TURBIDITY UNITS—CONTINUED WATER YEAR OCTOBER 2002 THROUGH SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	7	S	ЕРТЕМВЕ	ER
1 2 3 4 5	69 92 73 89 94	48 54 56 64 79	57 69 66 80 87	70 65 55 59 55	60 46 49 49 47	63 56 52 53 52	30 32 28 28	19 21 20 18	25 25 24 23 e27	25 27 21 23 22	13 14 14 14 11	17 17 17 18 15
6 7 8 9 10	100 91 90 94 93	80 74 77 76 72	91 84 83 84 83	59 59 62 110 260	48 47 48 54 92	53 54 55 73 170	29 28 26 32 53	19 18 19 18 18	25 23 22 23 27	15 14 13 13 29	9.0 8.0 7.0 8.0 10	11 10 10 11 16
11 12 13 14 15	78 87 89 79 78	64 65 59 59 60	69 72 75 70 70	98 86 65 73 58	66 61 48 46 47	75 72 58 54 52	29 28 26 24 21	16 17 16 15 14	23 22 21 19 18	13 16 21 58 18	9.0 10 10 10 12	12 12 15 17 16
16 17 18 19 20	93 340 290 59 56	64 63 59 41 43	79 120 120 49 48	75 64 69 61 56	46 45 45 44 43	60 54 54 51 49	19 20 19 16 21	14 12 12 12 12	17 16 15 15	35 98 	11 24 	15 37
21 22 23 24 25	60 86 71 1,300 1,300	44 42 44 56 230	48 58 61 390 710	51 50 44 42 49	42 37 33 30 25	46 43 38 35 32	20 24 22 23 23	13 12 13 12 11	16 17 17 16 16	 	 	
26 27 28 29 30 31	230 1,200 1,200 200 85	99 80 200 85 69	160 110 430 130 74	39 38 41 31 28 34	26 24 24 22 19 20	32 30 29 26 24 25	19 25 27 22 22 21	11 13 14 14 14 14	15 16 18 18 18	 	 	
MONTH	1,300	41	120	260	19	52	53	11	20	98	7.0	16
YEAR	1,300	7.0	38									

e Estimated